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CONTENTS

COMPUTER SCIENCE	1-2
MECHANICAL & AEROSPACE ENGINEERING	3-14
CHEMICAL ENGINEERING	16-17
CIVIL ENGINEERING	18-22
MATERIAL SCIENCE	23
ELECTRICAL & ELECTRONICS	24-32
MANAGEMENT	35-49
ADVERTISING & MARKETING	50-51
ACCOUNTING & FINANCE	52
ECONOMICS	53-62
AGRICULTURE & IRRIGATION	63
BIOSCIENCE / BOTANY / ENVIRONMENT	64-76
CHEMISTRY	77-86
PHYSICS	87-95
MATHEMATICS	96-104
TOURISM	105
GENERAL BOOKS	106
LIBRARY SCIENCE / ENGLISH LANGUAGE & LITERATURE	107-119
REFERENCE	110-111
PSYCHOLOGY	113
REGIONAL STUDIES / POLITICS / SOCIOLOGY	114-118
ARCHITECTURE	119
GEOLOGY / EARTH SCIENCE	120



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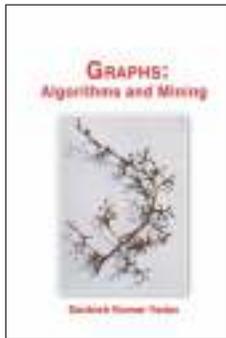
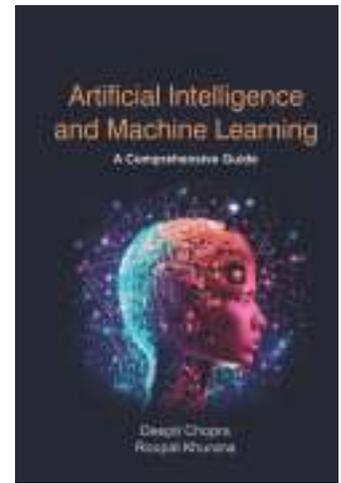
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Deepti Chopra, Roopal Khurana

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Santosh Kumar Yadav

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Partha Pratim Ray

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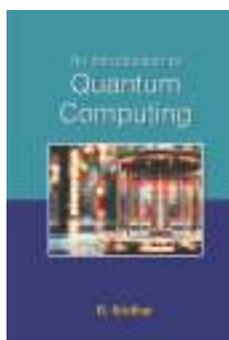


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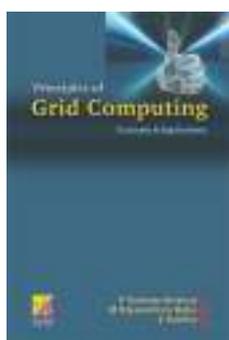


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R. Sridhar

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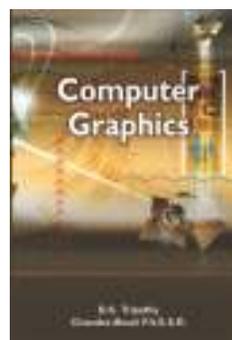


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P. Venkata Krishna
M. Rajasekhara Babu
V. Saritha

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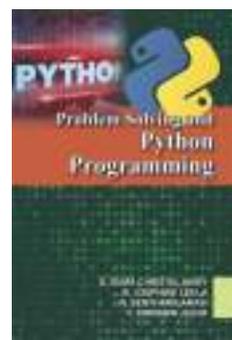


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C. Komalavalli
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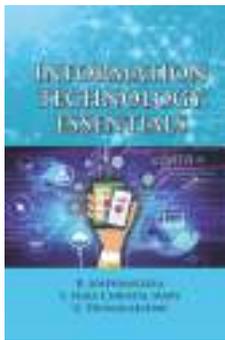


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R. Josphine Leela
N. Senthamarasi
Y. Chrisbin Jeeva

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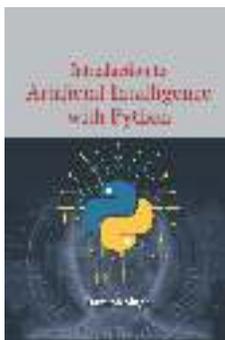


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R. Josphineleela
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Ramesh Singh

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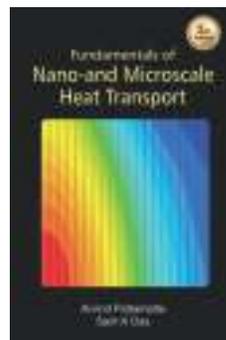


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Sawan S. Sinha

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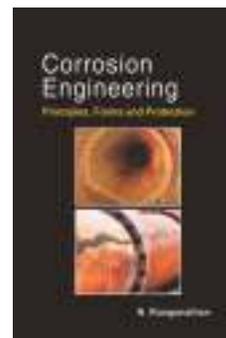


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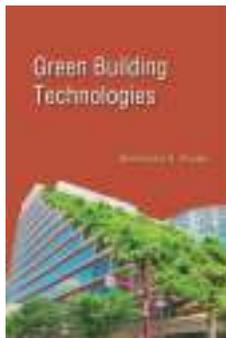


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N. Ranganathan

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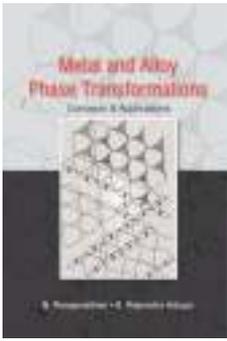


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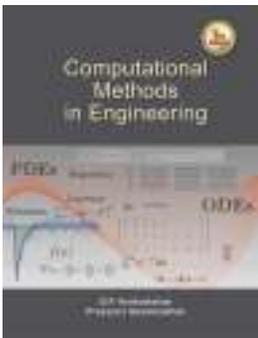


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N Ranganathan
K Rajendra Udupa

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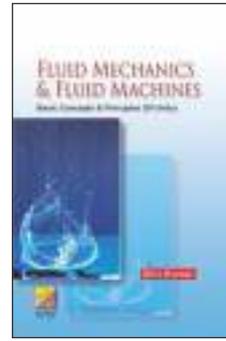


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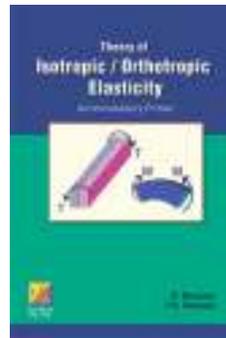


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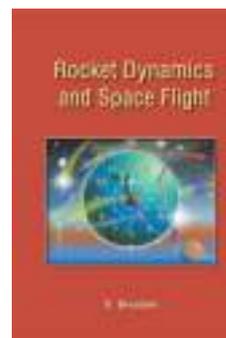


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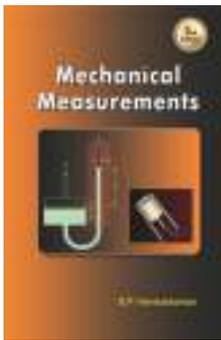


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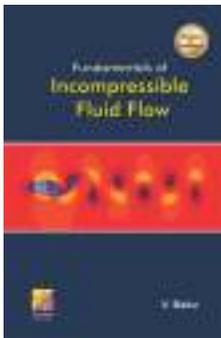


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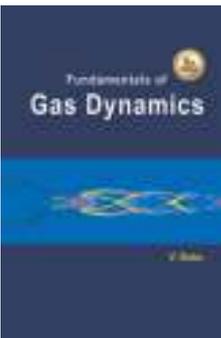


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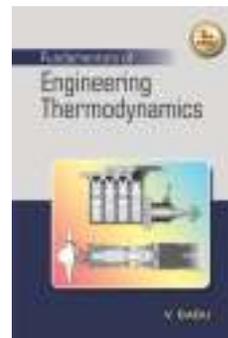


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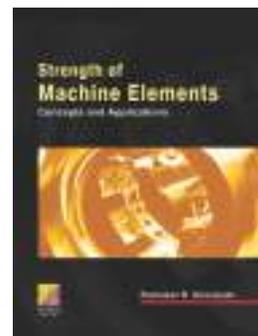


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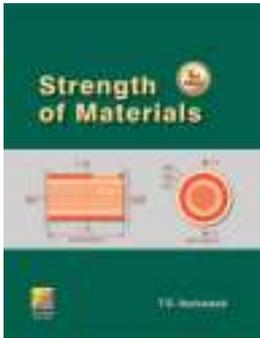


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Concepts and Applications

Ratnakar R. Ghorpade

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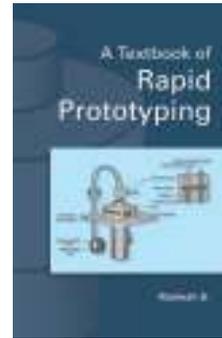


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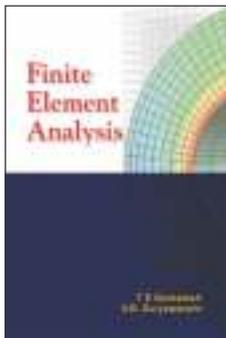


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Ramesh S.

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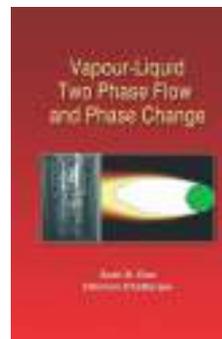


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T.S. Venkatesh
V.B. Suryawanshi

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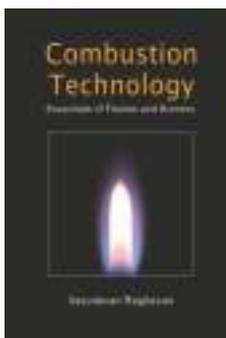


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Sarit K Das
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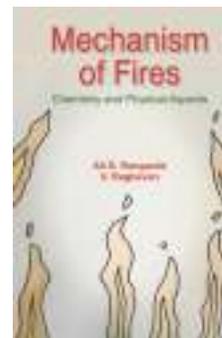


Combustion Technology Essentials of Flames and Burners

V. Raghavan

Contents: 1. Introduction 2. Review of Combustion Thermodynamics and Kinetics 3. Review of Combustion Phenomena 4. Burners For Gaseous Fuels 5. Burners For Liquid Fuels 6. Solid Fuel Systems 7. Alternative Fuels

9789385462504 • 238 (Hb) • 2023 (R) • ₹ 1495.00

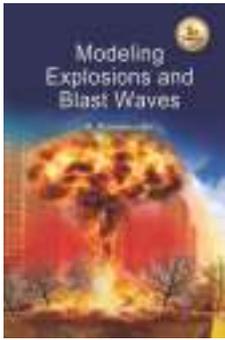


Mechanism of Fires Chemistry and Physical Aspects

Ali. S. Rangwala
V. Raghavan

Contents: 1. Basic Considerations 2. Review of Thermodynamics and Transport Processes for Fires 3. Diffusion and Premixed Flames Related to Fires 4. Burning of Liquids 5. Burning of Solids 6. Properties of Fire Plumes 7. Compartment Fires 8. Dust Flames

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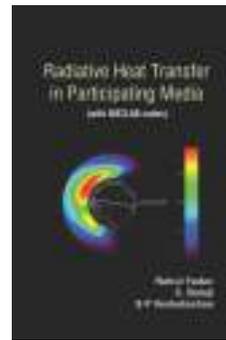
Modeling Explosions and Blast Waves

2/Ed

K. Ramamurthi

Contents: 1. Basic Concepts and Introduction 2. Blast Waves in Air 3. Interaction of Blast Waves with Rigid and Non-rigid Bodies 4. Energy Release and Rate of Energy Release 5. Thermal Theory 6. Propagation of Reaction Front 7. Formation of Flames and Detonations 8. Condensed Phase Explosions 9. Unconfined and Confined Gas Phase Explosions 10. Dust Explosions 11. Physical Explosions and Rupture of Pressure Vessels 12. TNT Equivalence and Yield 13. Atmospheric Dispersion 14. Quantification of Damages.

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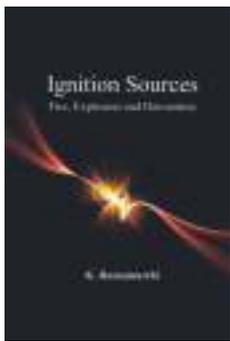
Radiative Heat Transfer in Participating Media

(with MATLAB codes)

Rahul Yadav
C Balaji
S.P. Venkateshan

Contents: 1 Introduction 2 State of the art on Radiative transfer in participating media 3 Mathematical Formulations and Solution Methodology 4 Radiative Transfer in Cylindrical Geometries with a Participating Medium 5 Radiative Transfer in Conical Geometries with a Participating Medium 6 Radiative Heat Transfer in Three Dimensional Rectangular Geometries with a Participating Medium 7 Inverse Problem of Discrete Heaters in Radiant Furnaces 8 Closure, Appendix, Formulation of Mie Scattering Theory, Radiative Properties of Soot based on Temperature and Type of Fuel, MATLAB Codes for the important problems, References.

9789390658060 • 252 (Hb) • 2023 • ₹ 1995.00



Ignition Sources

Fire, Explosion and Detonation

K. Ramamurthi

Contents: 1. Preliminary concepts and introduction 2. Thermal ignition energy sources 3. Chemical ignition energy sources 4. Electrostatic ignition energy sources 5. Shock waves as ignition sources 6. Electromagnetic radiation ignition sources 7. Formation of fires and explosions in solid combustibles 8. Detonation of solid explosives 9. Ignition of liquid fuels and explosives 10. Ignition sources for confined and unconfined gaseous combustibles 11. Unanticipated thermal ignition sources and threats 12. Shock wave and impact threats for solid explosives

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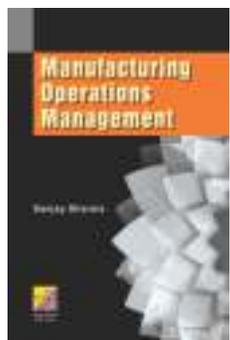


Modern Machining Processes

Anand Pandey

Contents: 1. Variants Of Electrical Discharge Machining 2. Wire Electrical Discharge Machining 3. Laser Beam Machining 4. Electro Chemical Machining 5. Electro Chemical Discharge Machining 6. Micro Ultrasonic Machining 7. Abrasive Flow Machining 8. Abrasive Water Jet Machining 9. Hybrid Micro-Machining Processes 10. Other Modern Machining Processes 11. Fabrication And Machining Of Modern Materials.

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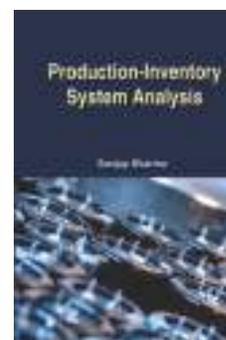


Manufacturing Operations Management

Sanjay Sharma

Contents: 1. Introduction 2. Facilities Planning 3. Demand Forecasting 4. Production Planning and Control 5. Work Study 6. Inventory Management 7. Inspection and Quality Control 8. Project Management 9. Financial Management, Exercises, Bibliography

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Production-Inventory System Analysis

Sanjay Sharma

Contents: 1. Introduction 2. Economic Lot Sizing 3. Lot Sizing Relevant to JIT Concept 4. Optimal Policies For Temporary Price Discount and Price Increase 5. MRP Lot Sizing 6. Multi-item Production Environment 7. Flexible Production Rate

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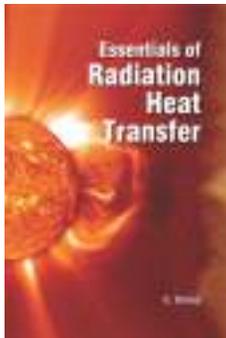
Thermal System Design and Optimization

2/Ed

C. Balaji

Contents: 1 Introduction to design and system design 2 System Simulation 3 Curve fitting 4 Optimization-Basic ideas and formulation 5 Lagrange multipliers 6 Search methods 7 Linear Programming and Dynamic Programming 8 Non-traditional optimization techniques 9 Inverse problems, Summary, Appendix, Bibliography, Random number table, Index

9789388264785 • 446 (Hb) • 2023 • ₹ 1495.00

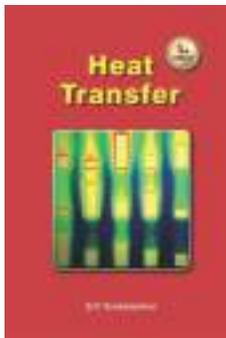


Essentials of Radiation Heat Transfer

C. Balaji

Contents: 1. Introduction 2. Black body radiation 3. Radiative properties of non-black surfaces 4. View factors 5. Enclosure analysis 6. Gas radiation 7. Atmospheric radiation 8. Inverse problems in radiation

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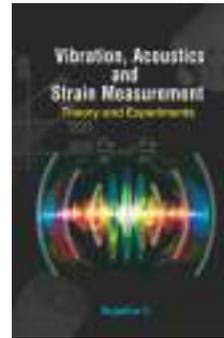
Heat Transfer

3/Ed

S.P. Venkateshan

Contents: 1. Introduction to the study of heat transfer; 2. Steady conduction in one dimension; 3. Unsteady heat transfer in lumped systems; 4. Heat transfer from extended surfaces; 5. Multidimensional conduction, Part 1; 6. Multidimensional conduction, Part 2 7. Numerical solutions of conduction problems; 8. Basics of thermal radiation; 9. Surface radiation; 10. Radiation in enclosures; 11. Radiation in participating media; 12. Laminar convection in internal flow; 13. Laminar convection in external flow; 14. Convection in turbulent flow; 15. Heat exchangers; 16. Natural convection; 17. Special topics in heat transfer; Appendixes; Bibliography

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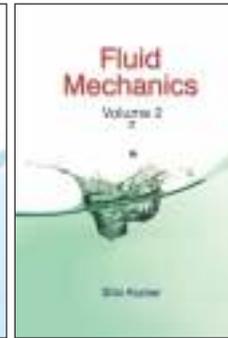
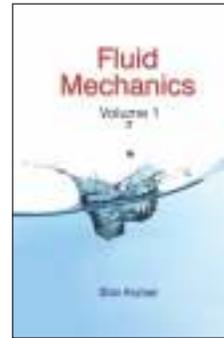
Vibration, Acoustics and Strain Measurement

Theory and Experiments

Sujatha C.

Contents: 1. Introduction 2. Theory of Vibration 3. Equipment for Measurement and Generation of Vibration 4. Fundamentals of Acoustics 5. Equipment for Measurements in Acoustics 6. Theory of Stress Analysis 7. Strain Gauge Based Equipment 8. Fundamentals of Signal Analysis 9. Basics of Experimental Modal Analysis 10. Vibration Experiments 11. Experiments in Acoustics 12. Common Experiments in Stress Analysis

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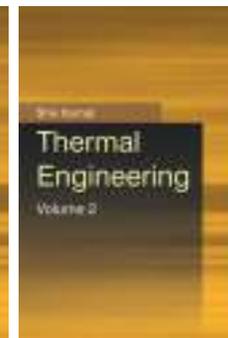
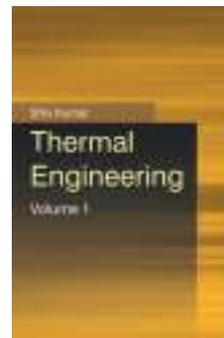
Fluid Mechanics Volume 1 & 2

Shiv Kumar

Contents: (Vol.1) 1. Properties of Fluids 2. Pressure and Its Measurement 3. Hydrostatic Forces on Surface 4. Buoyancy and Floatation 5. Kinematics of Fluid Motion 6. Dynamics of Fluid Flow 7. Dimensional and Model Analysis Vol. 2: 1. Laminar Flow 2. Turbulent Flow 3. Boundary Layer Theory 4. Flow Through Pipe 5. Pipe Flow Measurement 6. Orifices and Mouthpieces 7. Flow Past Submerged Bodies 8. Flow Through Open Channels 9. Notches and Weirs 10. Compressible Flow

9789394883314 • 464 (Hb) • 2023 • ₹ 2500.00

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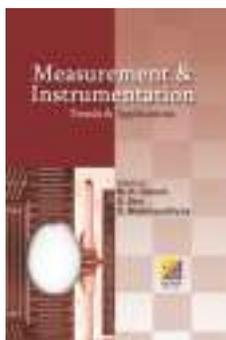
Thermal Engineering Vol. 1 & 2

Shiv Kumar

Contents: (Vol.1) 1 Basic of Thermodynamics 2 Zeroth Law of Thermodynamics 3 First Law of Thermodynamics 4 Application of First Law of Thermodynamics to Flow Processes Thermodynamics 5 Second Law of Thermodynamics 6 Entropy 7 Availability and Irreversibility Vol. 2: 1 Properties of Pure Substance 2 Vapor Power Cycles 3 Introduction to Working of IC Engines 4 Air-Standard Cycles 5 Gas Turbines and Jet Propulsion 6 Thermodynamic Property Relations 7 Combustion

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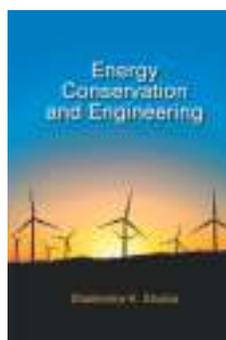


Measurement and Instrumentation Trends and Applications

Edited by
M.K. Ghosh
S. Sen
S. Mukhopadhyay

Contents: Part A : Introduction, 1: Evolution and Trends in Measurement and Instrumentation, 2: Instrument Performance Evaluation, Part B : Sensors, 3: Electrical Sensors, 4: Optical Sensors, 5: Chemical Sensors, 6: Biochemical Sensors, 7: Nucleonic Sensors, 8: Microwave Sensors, 9: Silicon Micromachining, Microsensors and MEMS, 10: Design of MEMS Capacitive Accelerometers, Part C: Signal Conditioning and Processing, 11. Signal Conditioning and Processing, 12. Telemetry and Data Communication, 13. High Order Filter Design, Part D : Image Based Instrumentation, 14. Boundary Extraction and Contour Propagation of Heart Image Sequences, 15. Remote Sensing An Overview, Part E : Intelligent and Virtual Instrumentation, 16. Sensor Fusion and Estimation in Instrumentation, 17. On-line Monitoring of Manufacturing Processes: A Case study of Tool Monitoring in Face Milling, 18. Real Time Power System Frequency Estimation Techniques, Part F : Applications, 19. Automation in Irrigation, 20. VLSI in Medical Instrumentation, 21. Robotic Instrumentation, Chapter 22: Bioprocess Instrumentation, Chapter 23: Measurement of Two-Phase Flow Parameters (Void Fraction and Flow Rate).

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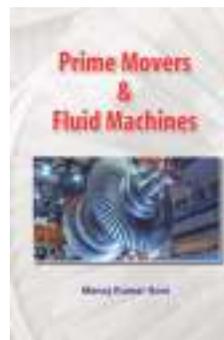


Energy Conservation and Engineering

Shailendra K Shukla

Contents: 1. Renewable Energy Sources 2. Solar Energy Basics 3. Solar Technologies 4. Civil Engineering Projects Connected with Energy Source 5. Biomass and Biogas Technologies 6. Smokeless Chulha 7. Geothermal Energy and Its Utilization 8. Ocean Thermal Energy Conversion 9. Fuel Cell 10. Thermoelectric Power Generation and M.H.D. Power 11. Energy Auditing and Green Building

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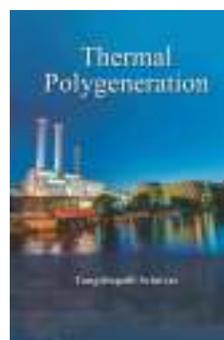


Prime Movers and Fluid Machines

Manoj Kumar Soni

Contents: 1. Dimensional Analysis & Model Testing, 2. Hydraulic Turbines, 3. Reciprocating Pumps, 4. Centrifugal Pumps, 5. Reciprocating Compressors, 6. Centrifugal Compressors, 7. Axial Flow Compressors, 8. Steam Nozzles, 9. Steam Turbines, 10. Gas Turbines

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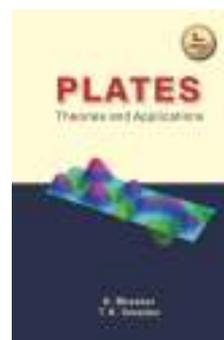


Thermal Polygeneration

Tangellapalli Srinivas

Contents: Foreword, Preface, Acknowledgements, Nomenclature 1. Introduction 2. Power Generation 3. Binary Fluid Properties and Processes 4. Binary Fluid Power 5. Binary Fluid Cooling 6. Vapour Compression Refrigeration 7. Humidification-Dehumidification Desalination 8. Binary Fluid Polygeneration 9. Heat Pump Polygeneration 10. Polygeneration – A Comparative Study Appendix - A - Binary Fluid Properties – Ammonia-Water Mixture Appendix - B - Refrigerants and Psychrometric Properties References

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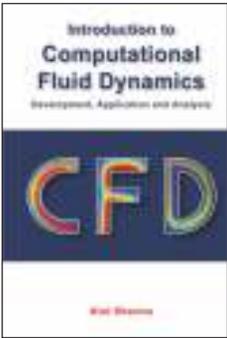


Plates Theories and Applications 2/E

K. Bhaskar
T.K. Varadan

Contents: Part A: Classical Theory and Straightforward Applications 1 Definition of a Thin Plate 2 Classical Plate Theory 3 A Critical Assessment of Classical Plate Theory 4 Analysis of Rectangular Plates 5 Analysis of Circular Plates 6 Free and Forced Vibrations 7 Effect of In-plane Forces on Static Flexure, Dynamics and Stability 8 Approximate Solutions Appendix – Solutions for Problems Part B: Complicating Effects and Corresponding Theories 9 Anisotropic, Laminated and Functionally-Graded Plates 10 Elasticity Solutions for Plates 11 Shear Deformation Theories 12 Variable Thickness Plates 13 Plate Buckling due to Non-Uniform Compression 14 Nonlinear Flexure and Vibrations 15 Post-Buckling Behaviour Index

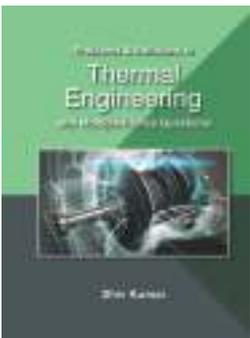
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Introduction to Computational Fluid Dynamics Development, Application and Analysis

Atul Sharma

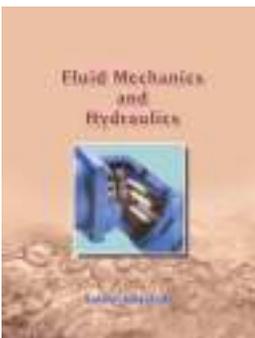
Contents: Part 1: Introduction & Essentials 1. Introduction, 2. Introduction to CFD, 3. Essentials of Fluid-Dynamics & Heat-Transfer, and 4. Essential of Numerical Methods. Part 2: CFD for a Cartesian Geometry 5. Computational Heat Conduction (CHC), 6. Computational Heat Advection, 7. Computational Heat Convection, 8. CFD: Finite Volume Method, 9. CFD on a Staggered Grid, and 10. CFD on a Co-located Grid).Part 3: CFD for a Complex Geometry (11. CHC and 12. CFD, on a Curvilinear Grid).
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Problems & Solutions in Thermal Engineering with Multiple-Choice Questions

Shiv Kumar

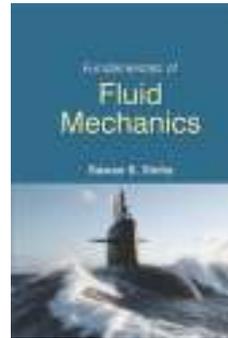
Contents: 1 Basic of Thermodynamics 2 First Law of Thermodynamics 3 Second Law of Thermodynamics 4 Entropy 5 Properties of Pure Substance 6 Vapor Power Cycles 7 IC Engines 8 Gas Turbine, Answers, MCQ-Solution, Practice/Exam Questions with Solutions, Appendix
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Fluid Mechanics and Hydraulics

Suresh Ukarande

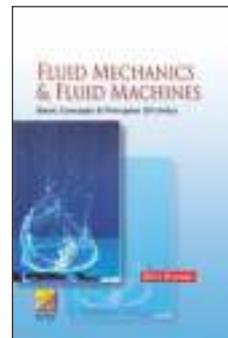
Contents: 1. Fluid Properties 2. Fluid Pressure Measurement 3. Hydrostatic Forces on Surfaces 4. Buoyancy and Floatation 5. Fluids in Relative Equilibrium 6. Kinematics of Fluid Flow 7. Dynamics of Fluid Flow 8. Orifices and Mouthpieces 9. Notches and Weirs 10. Laminar Flow 11. Turbulent Flow in Circular Pipes 12. Pipe Flow System 13. Water Hammer Theory 14. Boundary Layer and Forces on Submerged Bodies 15. Flow through Open Channel 16. Dimensional Analysis and Model Testing 17. Compressible Fluid Flow 18. Impact of Jet on Plates and Jet Propulsion 19. Hydraulic Turbines 20. Centrifugal Pumps 21. Miscellaneous Hydraulic Machinery 22. Introduction to Ideal Fluid Flow, Appendix, Index
9789394883161 • 702 (Hb) • 2024 • ₹ 2995.00



Fundamentals of Fluid Mechanics

Sawan S. Sinha

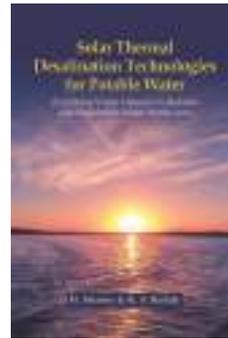
Contents: 1 Tensors 2 Mechanics: A brief review of the fundamentals 3 Description of fluid motion 4 Fluid Kinematics 5 Governing equations of fluid motion 6 Interaction of a flow field with a solid surface 7 Hydrostatics 8 Some simple representative flows of an ideal fluid 9 Some simple representative flows of a viscous fluid 10 Governing equation of motion in non-inertial reference frames
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Fluid Mechanics & Fluid Machines Basic Concepts & Principles (SI Units)

Shiv Kumar

Contents: 1. Properties of Fluids, 2. Pressure and its Measurement, 3. Hydrostatic Forces on Surface, 4. Flow of Fluids, 5. Notches and Weirs, 6. Flow through Orifices and Mouthpieces, 7. Flow Through Pipes, 8. Flow Through Open Channels, 9. Hydraulic Turbines, 10. Pumps, 11. Hydraulic Devices, Objective Questions, References, Appendices, Index
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Solar Thermal Desalination Technologies for Potable Water (Exploring Viable Options for Reliable and Sustainable Water Production)

H. Sharon
K.S. Reddy

Contents: 1 Introduction 2 Solar Radiation Potential: Modeling, Measurement and Utilization 3 Basin Type Solar Thermal Desalination Systems 4 Tilted Solar Thermal Desalination Systems 5 Tubular Solar Thermal Desalination Systems 6 Stepped Solar Thermal Desalination Systems 7 Multi-Effect/Stage Solar Thermal Desalination Systems 8 Multi-Effect Tubular Solar Thermal Desalination Systems 9 Vertical Convection Solar Thermal Desalination Systems 10 Vertical Diffusion Solar Thermal Desalination Systems 11 Hybrid Solar Chimney – Thermal Desalination Systems 12 Solar Thermal Wastewater Treatment Systems 13 Environmental Footprints, Economics and Sustainability, Appendix
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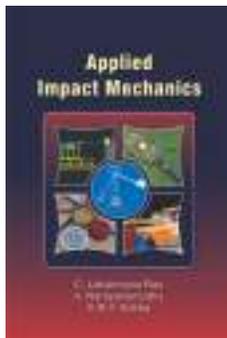


Maintenance Management and Engineering

Tanmoy Deb

Contents: 1 Part-I: Fundamentals of Maintenance Management, 1. Concept of Maintenance, 2. Maintenance Strategy and Organisation, Part-II: Maintenance Management Systems, 3. Maintenance Systems, 4. Maintenance Planning and Scheduling, 5. Maintenance System Operation, Documentation and Regulatory Compliance, 6. Project and Tendering Management, 7. Contract Management, Part-III: Operational Aspects of Maintenance Management, 8. Spare Parts and Inventory Management, 9. Material Handling Systems, 10. Industrial Safety Management, 11. Industrial Disaster Management, 12. Asset Replacement Decisions, 13. Shutdown Maintenance, 14. Computerised Maintenance Management System, 15. Maintenance Audit, 16. Financials of Maintenance Management, 17. Advances in Maintenance Management, Part-IV: Human Resource for Maintenance Management, 18. Maintenance Manpower Planning, Training and Re-deployment, 19. Human Factors in Maintenance, Part-V: Maintenance Engineering, 20. Non-Destructive and Destructive Testing, 21. Condition Monitoring, 22. Lubrication Practices, 23. Failure Analysis and Reliability Engineering, 24. Maintenance of Electrical Machines, 25. Thermal Insulation and Refractory, 26. Energy Conservation and Energy Audit, Glossary of Key Terms, Professional Reference Tables, References, Index

9789389212136 • 508 (Hb) • 2024 • ₹ 1695.00



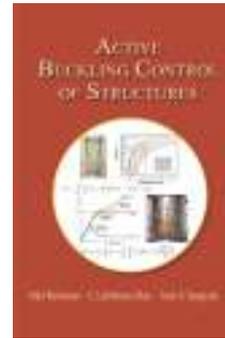
Applied Impact Mechanics

16 Color Plates

C. Lakshmana Rao
V. Narayanamurthy
K.R.Y. Simha

Contents: 1. Introduction 2. Rigid Body Impact 3. One-dimensional Impact Mechanics of Deformable Bodies 4. Multi-dimensional Impact Mechanics of Deformable Bodies 5. Experimental Impact Mechanics 6. Modeling Deformation and Failure Under Impact 7. Computational Impact Mechanics 8. Vehicle Collision 9. Ballistic Impact 10. Conclusion

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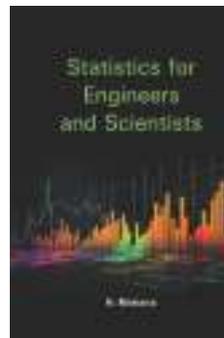


Active Buckling Control of Structures

Mini Ramanan
C. Lakshmana Rao
Arun K. Tangirala

Contents: 1 Perspective and History 2 Fundamentals 3 Fundamentals of control systems 4 Numerical methods 5 Instrumentation and Experimental Design 6 Buckling control of columns 7. Buckling control of plates 8. Control of shells exhibiting axisymmetric buckling 9. Control of shells exhibiting asymmetric buckling 10. Concluding remarks and scope for future work

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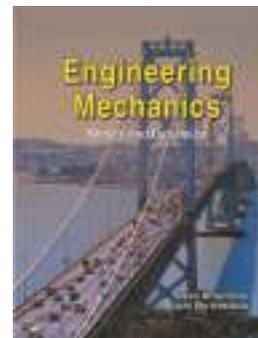


Statistics for Engineers and Scientists

N. Mohana

Contents: 1. Probability and Random Variable 2. Standard Distribution 3. Two Dimensional Random Variables 4. Testing of Hypothesis 5. Design of Experiments

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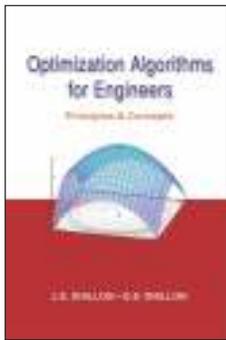


Engineering Mechanics Statics and Dynamics

Jivan Khachane
Ruchi Shrivastava

Contents: 1. Statics 2. Support Reactions 3. Analysis of Truss 4. Centre of Gravity and Moment of Inertia 5. Friction 6. Lifting Machines 7. Transmission of Power 8. Kinematics 9. Kinetics 10. Shear Force and Bending Moment

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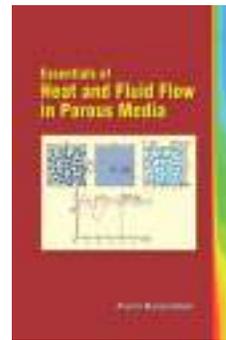


Optimization Algorithms for Engineers Principles and Concepts

J.S. Dhillon
G.S. Dhillon

Contents: 1. Introduction 2. Unconstrained Optimization: Gradient Methods 3. Unconstrained Optimization: Search Methods 4. Metaheuristic Optimization 5. Constrained Optimization 6. Multiobjective Optimization 7. Additional Topics of Optimization, Concluding Note, Review Questions, Practice Problems, Bibliography

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Essentials of Heat and Fluid Flow in Porous Media

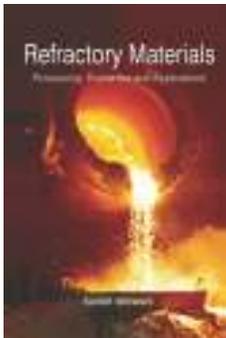
Arunn Narasimhan

About the Book: Knowledge of heat and fluid flow through porous media finds extensive applications in several engineering devices spanning four major division, mechanical, civil, chemical and bio-engineering. This textbook fills the knowledge-gap between available research monographs in porous media and basic thermo-fluids courses required to understand such monographs.

Salient features:

- includes exposition of fluid flow, conduction, convection, radiation in porous media
- exclusive chapter on porous medium aspects of biological systems
- end of chapter problems for all the basic topics
- explains volume averaging theory at a beginners level

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Refractory Materials Processing, Properties and Applications

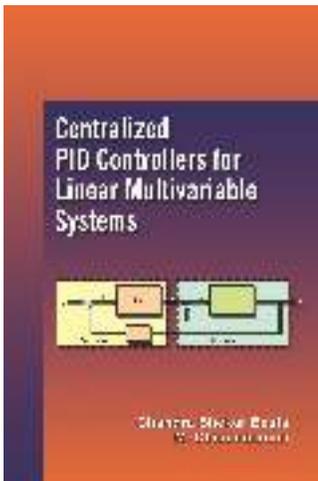
Subir Biswas

Contents: 1 Introduction 2.Refractory raw materials 3 Properties of Refractories 4. Processing of Refractory bricks, shapes and monolithic 5.Different refractory products 6.Refractory application in Iron and steel making 7.Refractories for Re-heating furnaces 8.Application of refractories in non-ferrous industries 9.Application of refractories in other industries

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Centralized PID Controllers for Linear Multivariable Systems

Chandra Shekar Besta
M. Chidambaram



Contents

1. Introduction to Control of Multivariable Systems
2. Centralized Multivariable Controllers
3. BLT Method for Stable Systems
4. BLT Method for Unstable Systems
5. Control System Design by Synthesis Method
6. Improved IMC Method
7. Centralized PI controllers by synthesis method based on RGA / RNGA
8. ERGA – ETF Based Controllers for unstable system
9. Controllers Based on CSOPTD Models
10. Controllers based on Method of Inequalities
11. Controllers based on Goal Attainment Method, *Appendices, References, Index*

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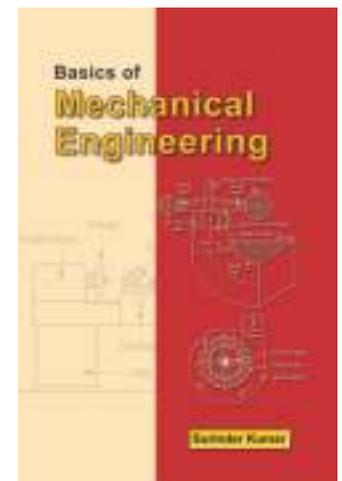
Basics of Mechanical Engineering

Surinder Kumar

Contents

1. Introduction to Machine Tool,
2. Basic Concept of Thermodynamics,
3. Properties of Steam and Steam Generator,
4. Refrigeration and Air Conditioning,
5. Hydraulic Turbines and Pumps,
6. Power Transmission Methods and Devices,
7. Stress and Strain,
8. Manufacturing System

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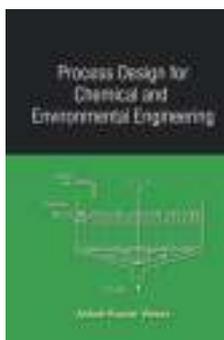




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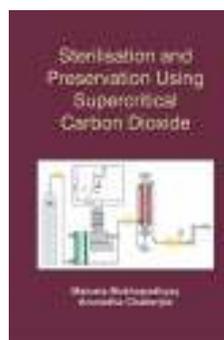


Process Design For Chemical and Environmental Engineering

Ashok Kumar Verma

Contents: 1. Introduction to Process Design 2. Process Design Fundamentals 3. Design of Heat Exchangers 4. Mass Transfer Equipment 5. Solid-Liquid and Liquid-Liquid Extraction 6. Humidification, Dehumidification and Drying 7. Reactor Design

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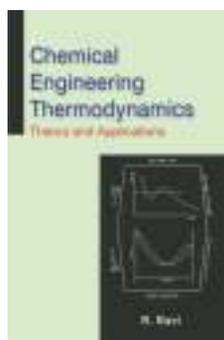


Sterilisation and Preservation Using Supercritical Carbon Dioxide

Mamta Mukhopadhyay
Anuradha Chatterjee

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Chemical Engineering Thermodynamics Theory & Applications

R. Ravi

Contents: Mathematical Preliminaries 1. A Synopsis of Classical Thermodynamics 2. Single component Fluid – Fundamentals 3. Single Component Fluid – Applications 4. Homogeneous (Single Phase) Mixtures 5. Heterogeneous (Multiphase) Mixtures 6. Reaction Equilibrium

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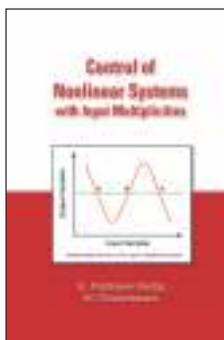


Lecture Notes Series Chemical Engineering ChE Triad

Nishith Verma

Contents: Transport Phenomena 1 Introduction (Review of Basic Mathematical Tools) 2 General Property Balance (Continuum) 3 Linear Momentum Balance 4 Dimensional Analysis 5 Mechanical/Kinetic Energy Balance 6 Coupling Between Energy & Momentum Equations: Free Convection or Buoyance - Driven Flow 7 Equation of Change for Species 8 Prototype Example 1: Rayleigh Problem or Stoke's First Problem 9 Prototype Example 2: Unsteady-State Laminar Flow or Start-up Flow in a Tube 10 Prototype Example 3: Flow in a Permeable Tube or Bundles of Hollow Fibers (Lubrication Approximation) 11 Prototype Example 4: Heat (Mass) Transfer in Laminar Flow in a Circular Tube 12 Prototype Example 5: Graetz Problem 13 Prototype Example 6: Brinkman Problem (Viscous Heating) 14 Prototype Example 7: (Natural Convection: Coupling Between Hydrodynamics and Energy) 14 Prototype Example 8: Steady-State Diffusion through a Stagnant Gas Film (Film Theory) 14 Prototype Example 9: Diffusion into a Falling Film (Surface Renewal Theory) 15 Prototype Example 10: Taylor Dispersion or Taylor-Aris Diffusion/Dispersion 16 Prototype Example 11: Strained Diffusion Controlled Reaction 17 Prototype Example 12: Simultaneous Momentum, Heat, and Mass Transport 18 Introduction to the Second Part of the Course 19 Boundary Layer Theory 20 Blasius Solution to BL Equations 21 Thermal and Mass Boundary Layer Theory 22 Turbulent Flow: Some Mathematical Analysis 23 Prototype Example 13: Reduction of BL Convection-Diffusion Equation 23 Prototype Example 14: Flow Over a Plate with Uniform Suction 24 Prototype Example 15: Diffusion to Free Falling Solid Particles (Levich) 25 Prototype Example 16: Mass Transfer to a Slowly Falling (Liquid) Drop in a Vapor or Gas 26 Prototype Example 17: Convection/diffusion to the Surface of a Circular Rotating Disk (Levich) 27 Prototype Example

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Control of Nonlinear Systems with Input Multiplicities

G. Prabhaker Reddy
M. Chidambaram

Contents: 1. Occurrence of Input Multiplicity and its Control Problems 2. Basic Review of Systems and Control 3. Hammerstein Model Based Control of Reactors 4. Hammerstein Model Based Control of Bioreactors 5. Near-Optimal Productivity Control of a Bioreactor 6. Nonlinear Control of Bioreactor with Input Multiplicities – Experimental Work 7. Nonlinear Control of Nonlinear Non-Minimum Phase Systems with Input Multiplicities 8. Model Reference Control of a CSTR 9. Model Reference Nonlinear Control of a Bioreactor 10. Fuzzy Logic Control of Systems with Input Multiplicities 11. Artificial Neural Networks Based Control of Systems with Input Multiplicities 12. Nonlinear Control of Systems with Input and Output Multiplicities 13. Control of Wiener type Nonlinear Systems with Input Multiplicities 14. Feed Forward Control of Nonlinear Systems with Input Multiplicities Appendices, References, Notations, Index

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Fundamentals of Turbulence and its Modeling

Sawan S. Sinha

Contents

- 1 Tensors
- 2 Description of fluid kinematics
- 3 Nature of turbulent flows
- 4 Random variables and their characterization
- 5 Governing equations of the mean flow field
- 6 Turbulence near a solid wall
- 7 Understanding multiplicity of length-scales in turbulent flows
- 8 Turbulence modeling
- 9 Scale-resolving simulations of turbulent flows

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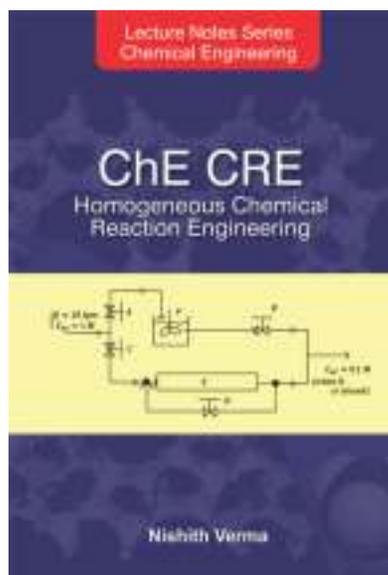
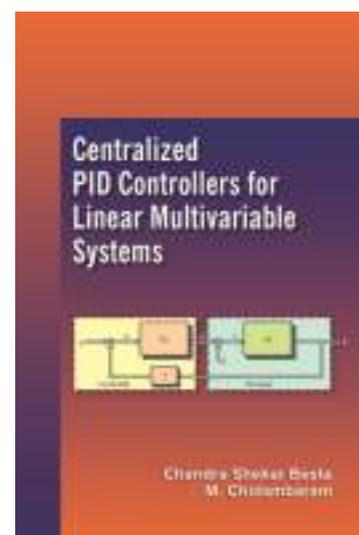
Centralized PID Controllers for Linear Multivariable Systems

Chandra Shekar Besta
M. Chidambaram

Contents

1. Introduction to Control of Multivariable Systems
2. Centralized Multivariable Controllers
3. BLT Method for Stable Systems
4. BLT Method for Unstable Systems
5. Control System Design by Synthesis Method
6. Improved IMC Method
7. Centralized PI controllers by synthesis method based on RGA / RNGA
8. ERGA – ETF Based Controllers for unstable system
9. Controllers Based on CSOPTD Models
10. Controllers based on Method of Inequalities
11. Controllers based on Goal Attainment Method, *Appendices, References, Index*

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ChE CRE Homogeneous Chemical Reaction Engineering

Nishith Verma

Contents

- 1 Chemical Processes
- 2 Chemical Reactions
- 3 Mechanism (Reaction Kinetics)
- 4 Constant-Volume Batch Reactor (Isothermal)
- 5 Batch Kinetics (Cont.)
- 6 Reactor Design — Introduction (Mixed Flow Reactor)
- 7 Plug Flow Reactor
- 8 Plug Flow Reactor (Cont.)
- 9 Equal Size MFR in Series
- 10 Recycle-Tubular Reactors
- 12 Multiple Reactions(Parallel)
- 13 Reactions in Series
- 14 Non-isothermal Operation
- 15 Adiabatic Operation
- 16 Non-ideal Reactors (RTD Study)
- 17 Fluid-Particles Reactions (Non-Catalytic)
- 18 Catalysts and Catalytic Reactions
- 19 Adsorption/Desorption
- 20 Porous Catalyst (Intraphase Transport + Kinetics)

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Strength of Materials

A Concise Textbook
2/Ed

K. Bhaskar
T.K. Varadan

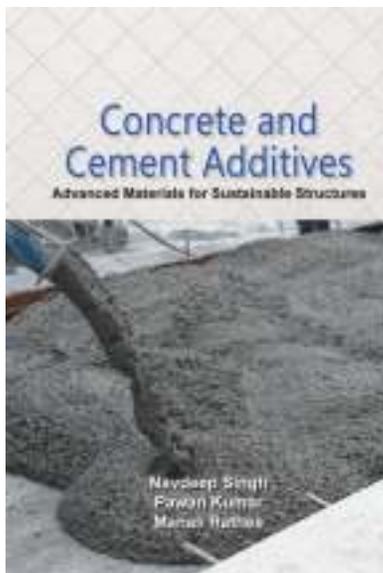
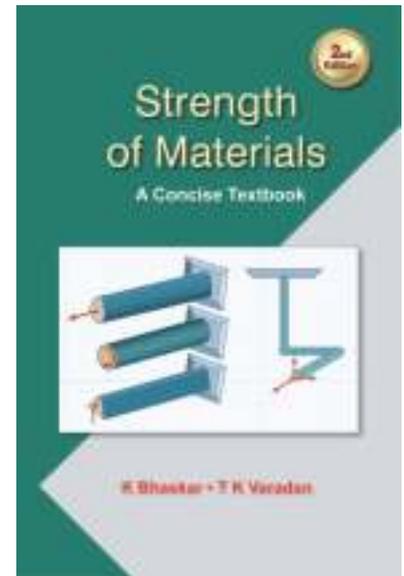
About the Book

The aim of this book is to present the essentials of solid mechanics with reference to basic load-bearing members — straight bars, thin-walled cylindrical and spherical pressure vessels, circular shafts, beams undergoing simple bending, and columns. The corresponding fundamental assumptions, important equations, and their range of validity, are concisely elucidated without formal derivations; subsequently, the sequence of steps in the analysis of forces, stresses and displacements, or stability, is amply illustrated by way of several carefully selected examples. Further, combined loading, stress and strain transformations, energy methods, and failure analysis using commonly employed criteria, are also dealt with. Thus, this book is expected to serve as a handy, yet complete, resource for students of this subject, as well as a ready reference for a practicing engineer or a graduate preparing for an interview or a competitive examination.

Unique features of the book:

- Coverage of the usual Strength of Materials syllabus taught in engineering colleges/polytechnics
- Very concise, student-friendly presentation
- A problem-solving approach with carefully chosen illustrative problems of wide variety

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Concrete and Cement Additives

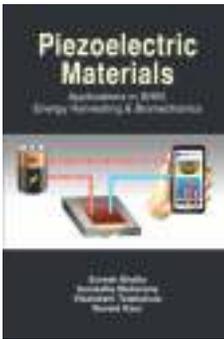
Advanced Materials for Sustainable Structures

Navdeep Singh
Pawan Kumar
Manali Rathee

Contents

1. Concrete and its Properties
2. Self-Compacting Concrete
3. Geopolymer Concrete and its Properties
- Preview 4. Recycled Concrete Aggregates
5. Silica Fume as Cement Addition
6. Metakaolin as Cement Addition
- Preview 7. Ground Granulated Blast-Furnace Slag as Cement Addition
8. Combustion Products as Cement Addition

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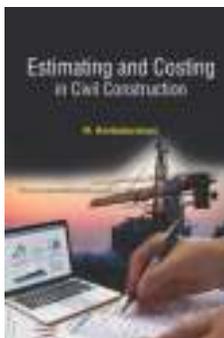
Piezoelectric Materials

Applications in SHM, Energy Harvesting and Biomechanics

Suresh Bhalla
Sumedha Moharana
Visalakshi Talakokula
Naveet Kaur

Contents: 1. Introduction 2. Piezo-Transducers for Structural Health Monitoring and Non-Destructive Evaluation 3. Piezo Bond-Structure Elasto-Dynamic Interaction: Refined Model 4. Piezo-Structure Elasto-dynamic Interaction: Continuum Model 5. Fatigue Damage Monitoring in Steel Joints Using Piezo-Transducers 6. Chloride Induced Rebar Corrosion Monitoring Using Piezo-Transducers 7. Carbonation Induced Corrosion Monitoring Using Piezo-Transducers 8. Piezoelectric Energy Harvesting: Analytical Models 9. Energy Harvesting Using Thin PZT Patches on Real-Life Structures 10. Extension of Structural Health Monitoring Technologies to Bio-mechanics and Bio-medical Engineering 11. Piezoelectric Materials: What Lies in Future? Appendix-A, Appendix-B, Appendix-C, References, Index.

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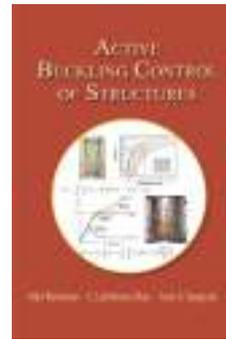


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R. Ambalavanan

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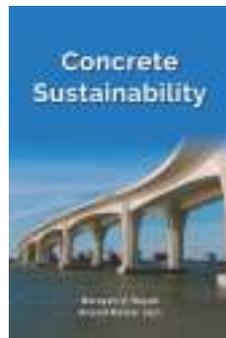


Active Buckling Control of Structures

Mini Ramanan
C. Lakshmana Rao
Arun K. Tangirala

Contents: 1 Perspective and History 2 Fundamentals 3 Fundamentals of control systems 4 Numerical methods 5 Instrumentation and Experimental Design 6 Buckling control of columns 7. Buckling control of plates 8. Control of shells exhibiting axisymmetric buckling 9. Control of shells exhibiting asymmetric buckling 10. Concluding remarks and scope for future work

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Concrete Sustainability

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Anand Kumar Jain

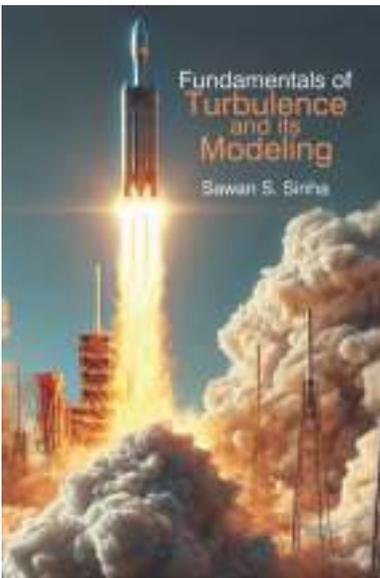
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Fundamentals of Turbulence and its Modeling

Sawan S. Sinha



Contents

1 Tensors 2 Description of fluid kinematics 3 Nature of turbulent flows 4 Random variables and their characterization 5 Governing equations of the mean flow field
6 Turbulence near a solid wall 7 Understanding multiplicity of length-scales in turbulent flows 8 Turbulence modeling
9 Scale-resolving simulations of turbulent flows

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Structural Dynamics

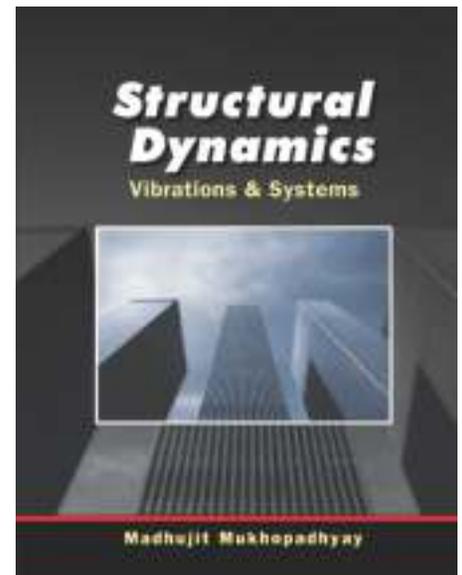
Vibrations & Systems

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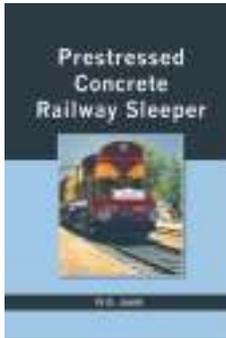
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9788126546893	Frozen Ground Engineering, 2/Ed.	Andersland	4995	2014	HB	WILEY
9781138581500	Mining and Its Impact on The Environment	Bell	5495	2018	HB	T & F
9788126548217	Nondestructive Testing of Deep Foundations	Hertlein	3495	2014	HB	WILEY
9789382291206	Pressure Vessel and Stachs	Escoe	2495	2013	HB	ELSEVIER
9781498798228	Process Integration For Resource Conservation	Foo	3995	2016	HB	CRC
9781138581555	Reinforced Soil Engineering : Advances in Research and Practice	Ling	4995	2018	HB	T & F
9781138583016	Seismic Design Aids For Nonlinear Analysis of Reinforced Concrete Structures	Chandrasekaran	2995	2018	HB	CRC
9781498767347	Soil Mechanics : Basic Concepts and Engineering Applications	Aysen	3495	2016	HB	CRC

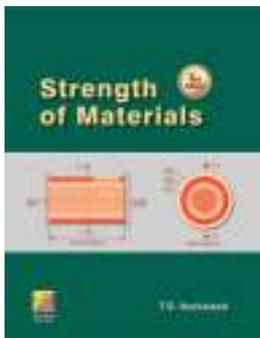


Prestressed Concrete Railway Sleeper

N.G. Joshi

Contents: 1. Introduction 2. Sleeper Production Systems 3. Requirements of Raw-Materials and Mix Design 4. Rail Fastening Systems 5. Normal Problems Faced in Production of PSC Sleeper & Their Probable Solutions 6. Quality Assurance and Testing 7. Installation and Maintenance of Precast Concrete Sleeper Track System 8. Design of PSC Sleepers 9. Indian Scenario 10. Performance of PSC Sleepers in Track 11. Future Sleeper Tracks 12. Non-Conventional Sleepers 13. Typical Standard Specifications for Pre-Tensioned Prestressed Concrete Sleepers for Broad Gauge and Meter Gauge 14. Appurtenances and other Important Information about Rails and Sleepers 15. Two Block Reinforced Concrete Sleeper.

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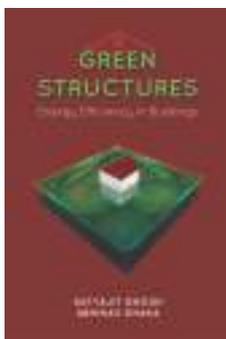
Strength of Materials

2/Ed

T.S. Venkatesh

Contents: 1. Simple Stresses and Strains 2. Shear Force and Bending Moment 3. Bending Stresses in Beams 4. Shear Stresses in Beams 5. A Torsion B Close Coiled Helical Springs 6. Direct and Bending Stresses 7. Columns and Struts 8. Deflection 9. Principal Planes and Stresses 10. Strain Energy 11. Thin Cylinders 12. Thick Cylinders

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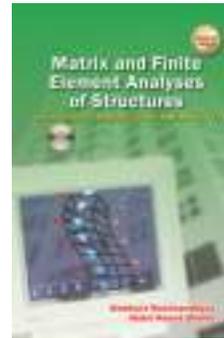


Green Structures Energy Efficiency in Buildings

Satyajit Ghosh
Abhinav Dhaka

Contents: Foreword, Preface, 1. Energy Efficiency in Buildings, 2. Siting and Microclimate, 3. Building Forms, 4. Building Fabric, 5. Renewable Energy, References

9789385462023 • 176 (Hb) • 2023 • ₹ 1995.00



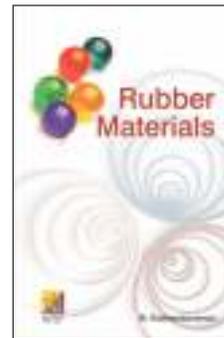
Matrix and Finite Element Analyses of Structures

(With Computer Programs in both FORTRAN and C)

Madhujit Mukhopadhyay
Abdul Hamid Sheikh

Contents: Preface 1 Basic Concepts of Structural Analysis 2 Energy Principles 3 Introduction to the Flexibility and Stiffness Matrix Methods 4 Direct Stiffness Method 5 Substructure Technique for the Analysis of Structural Systems 6 The Flexibility Matrix Method 7 Elements of Elasticity 8 Introduction to the Finite Element Method 9 Finite Element Analysis of the Plane Elasticity Problems 10 Isoparametric and Other Element Representations and Numerical Integration 11 Finite Element Analysis of Plate Bending Problems Chapter 12 Finite Element Analysis of Shells Chapter 13 Semianalytical and Spline Finite Strip Methods for the Analysis of Plate Bending Chapter 14 Dynamic and Instability Analyses by the Finite Element Method Chapter 15 The Finite Difference Method for the Analysis of Beams and Plates Chapter 16 Adaptive Finite Element Analysis Chapter 17 Geometrically Non-linear Finite Element Analysis Chapter 18 Finite Element Method Analysis of Stiffened Plates Chapter 19 Selected Topics References and Suggested Readings, Appendix, Subject Index.

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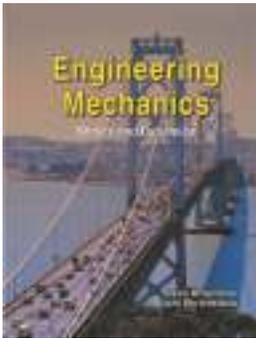


Rubber Materials

B. Kothandaraman

Contents: Preface, 1. Structure–Property Relationships in Rubbers 2. Natural Rubber 3. General Purpose Synthetic Rubbers 4. Special Purpose Synthetic Rubbers 5. High Performance Elastomers 6. Compounding Ingredients 7. Thermoplastic Elastomers 8. Blending and Compounding of Rubbers, Bibliography, Index.

9788180522246 • 168 (Hb) • 2023 • ₹ 595.00



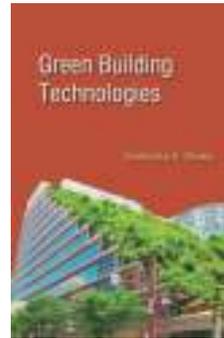
Engineering Mechanics

Statics and Dynamics

Jivan Khachane
Ruchi Shrivastava

Contents: 1. Statics 2. Support Reactions 3. Analysis of Truss 4. Centre of Gravity and Moment of Inertia 5. Friction 6. Lifting Machines 7. Transmission of Power 8. Kinematics 9. Kinetics 10. Shear Force and Bending Moment

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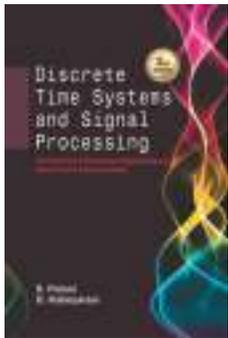


Green Building Technologies

Shailendra K Shukla

Contents: 1. Green Buildings 2. Smart Building Materials and Component 3. Building Integrated Energy Storage System 4. Building Integrated Greenery System 5. Active and Passive Exploitation of Renewable Energy in Buildings 6. Well-being, Thermal Comfort, and Environmental Livability 7. Sustainable Design and Operational Parameters

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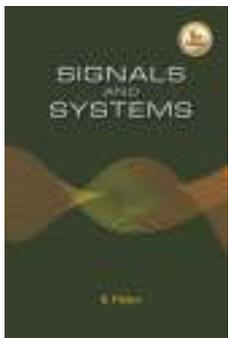


Discrete Time Systems and Signal Processing (for Electrical & Electronics Engineering and Electronics & Instrumentation) 2/Ed

S Palani
D Kalaiyarasi

Contents: 1. Representation of Discrete Signals and Systems 2. The z-Transform Analysis of Discrete Time Systems 3. Discrete Fourier Transform and Computation 4. Design of IIR Digital Filters 5. Design of FIR Digital Filters 6. Digital Signal Processor

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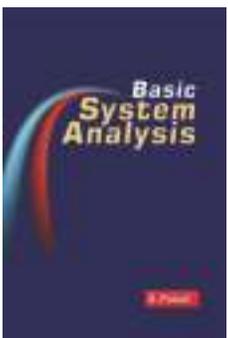


Signals and Systems 2/Ed

S Palani

Contents: 1. Representation of Signals 2. Continuous and Discrete Time Systems 3. Time Domain Analysis of Continuous and Discrete Time Systems 4. Fourier Series Analysis of Continuous Time Signals 5. Fourier Series Analysis of Discrete Time Signals 6. Fourier Transform Analysis of Continuous Time Signals 7. Fourier Transform Analysis of Discrete Time Signals and Systems – DTFT, DFT and FFT 8. The Laplace Transform Method for the Analysis of Continuous Time Signals and Systems 9. The z-transform Analysis of Discrete Time Signal and Systems 10. Sampling.

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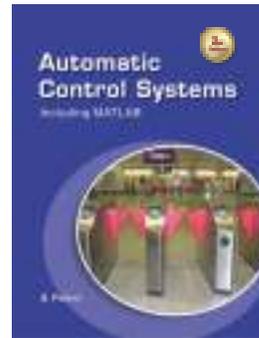


Basic System Analysis

S. Palani

Contents: 1. Representation of Signals and Systems 2. Fourier Series Analysis of Continuous Time Signals 3. Fourier Transform Analysis of Continuous Time Signals 4. The Laplace Transform Method for the Analysis of Continuous Time Signals and Systems 5. The z-transform Analysis of Discrete Time Signals and Systems 6. State Space Modelling and Analysis, Index

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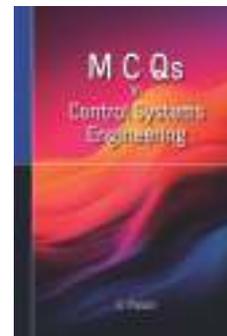


Automatic Control Systems Including MATLAB 2/Ed

S. Palani

Contents: 1 Control Systems Modelling and their Representation, 2 Time Response Analysis, 3 Frequency Response Analysis, 4 Stability Analysis of Linear Control System, 5 Root Locus Method for Analysis, 6 Design of Compensators, 7 State Space Modelling and Analysis

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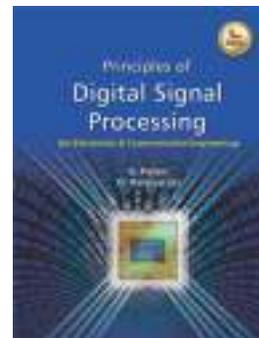


MCQs in Control Systems Engineering

S. Palani

Contents: 1 System Transfer Function 2 Time Response Analysis 3 Frequency Response Analysis 4 Stability Analysis of Linear System 5 Root Locus Method of Analysis 6 Design of Compensators 7 State Space Analysis

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Principles of Digital Signal Processing (for Electronics & Communication Engineering) 2/Ed

S Palani
D Kalaiyarasi

Contents: 1. Representation of Discrete Signals and Systems 2. Discrete and Fast Fourier Transforms (DFT and FFT) 3. Design of IIR Digital Filters 4. Finite Impulse Response (FIR) Filter Design 5. Finite Word Length Effects 6. Multi-rate Digital Signal Processing

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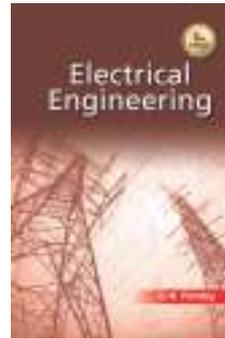


Digital Signal Processing
(for Computer Science & Information Technology)

S Palani
D Kalaiyarasi

Contents: 1.Representation of Discrete Signals and Systems 2.Discrete and Fast Fourier Transforms (DFT and FFT) 3.Design of IIR Digital Filters 4.Finite Impulse Response (FIR) Filter Design 5.Finite Word Length Effects 6.Multi-rate Digital Signal Processing, Index

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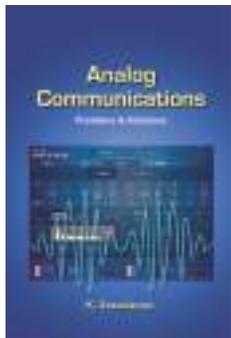


Electrical Engineering
2/Ed

O.N. Pandey

Contents: 1. Circuit Concepts and Analysis 2. Network Theorems 3. Steady-State Analysis of AC Circuits 4. Three Phase AC Circuits 5. Measuring Instruments 6. Earthing and Electrical Safety 7. Magnetic Circuits 8. Single Phase 9. DC Machines 10. Three Phase Induction Motor 11. Single Phase Induction Motor 12. Three Phase Synchronous Machines

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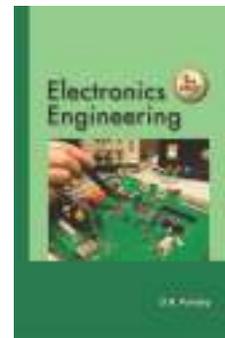


Analog Communications
Problems & Solutions

K. Vasudevan

Contents: Dedication, Preface, Notation, 1 Signals and Systems 2 Random Variables & Random Processes 3 Amplitude Modulation 4 Frequency Modulation 5 Noise in Analog Modulation 6 Pulse Code Modulation 7 Signaling Through AWGN Channel

9789386761811 • 370 (Hb) • 2023 • ₹ 1999.00

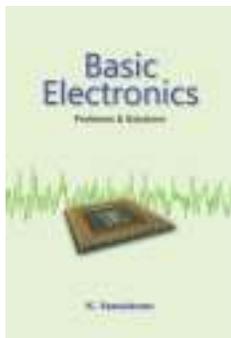


Electronics Engineering
2/Ed

O.N. Pandey

Contents: 1. Basics of Electronics, 2. Semiconductor Diodes, 3. Bipolar Junction Transistor (BJT), 4. Field Effect Transistor (FET), 5.Operational Amplifier (OP-AMP), 6. Switching Theory and Logic Design (STLD), 7. Electronics Instruments, 8. PSPICE

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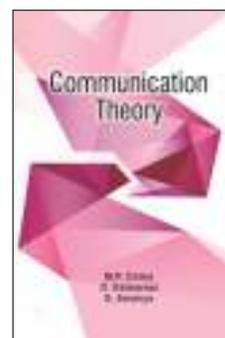


Basic Electronics
Problems & Solutions

K. Vasudevan

Contents: Notation, List of Symbols, 1 DC Circuit Analysis 2 RL and RC Transients 3 AC Circuits – Steady State Analysis 4 Resonance, Bode Plots and 2-port Networks 5 Diode Circuits 6 Bipolar Junction Transistors 7 Op Amp Circuits and Oscillators 8 Combinational Circuits 9 Sequential Circuits, Appendix: Two-Port Networks, Bibliography, Index

9789386761972 • 312 (Hb) • 2023 • ₹ 1699.00



Communication Theory

M.P. Chitra
D. Kalaiarasi
S. Saranya

Contents: Preface, Acknowledgement, Introduction, Unit 1-Amplitude Modulation, Unit 2-Angle Modulation, Unit 3-Random Process, Unit 4- Noise Characterisation, Unit 5-Sampling and Quantization

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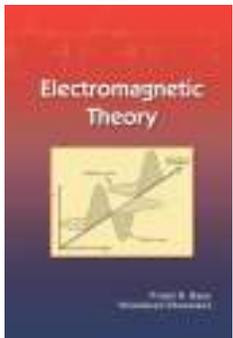


Plasma and Plasmonics

Kushal Shah

Contents: 1. Preface, 1. Maxwell's Equations 2. Electromagnetic Properties of Metals 3. Plasma Kinetic Theory 4 Plasma Fluid Theory 5. Surface Plasmon Polaritons (SPP) 6 Spool Surface Plasmons (SSP) 7 Advanced Topics in Plasmonics 8. Mathematical Foundations 9. Numerical Methods for Electromagnetics, Appendix: Legendre Polynomials, Bibliography

9789385462849 • 198 (Hb) • 2023 • ₹ 1495.00

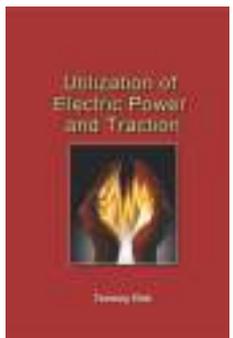


Electromagnetic Theory

Prabir K Basu
Hrishikesh Dhasmana

Contents: 1. Electromagnetic Theory Fundamentals 2. Static Electric Fields 3. Teady Magnetic Fields 4. Time Varying Fields and Maxwell's Equations 5. Reflection and Refraction of E.M.Waves 6. Transmission Line 7. Introduction to Smith Chart, Numerical Problems, Sample Questions, Index

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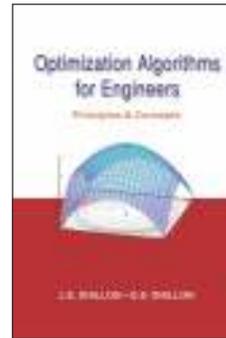


Utilization of Electric Power and Traction

Tanmoy Deb

Contents: 1. Electric Heating 2. Electric Welding 3. Illumination 4. Electrolytic Process 5. Refrigeration and Air Conditioning 6. Electric Drive 7. Electric Traction 8. Economic Aspects of Utilization

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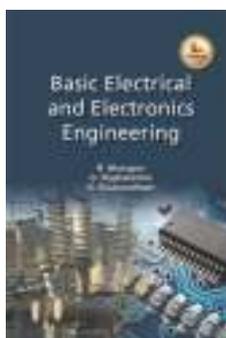
Optimization Algorithms for Engineers

Principles & Concepts

J.S. Dhillon
G.S. Dhillon

Contents: 1. Introduction 2. Unconstrained Optimization: Gradient Methods 3. Unconstrained Optimization: Search Methods 4. Metaheuristic Optimization 5. Constrained Optimization 6. Multiobjective Optimization 7. Additional Topics of Optimization, Concluding Note, Review Questions, Practice Problems, Bibliography

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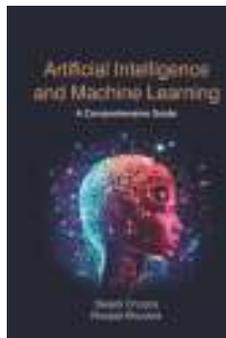
Basic Electrical and Electronics Engineering

2/Ed

R Murugan
G Rajalakshmi
N Sivanandham

Contents: 1. Electrical Circuits And Measurements 2. Electrical Mechanics 3. Semiconductor Devices And Applications 4. Digital Electronics 5. Fundamentals Of Communication Engineering.

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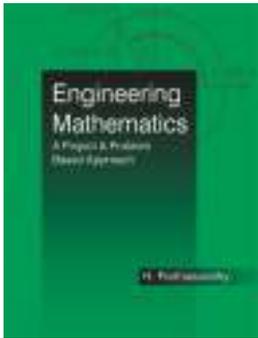
Artificial Intelligence and Machine Learning

A Comprehensive Guide

Deepti Chopra
Roopal Khurana

Contents: 1. Foundations of Artificial Intelligence and Machine Learning 2. Machine Learning Algorithms and Techniques 3. AI Applications in Real World Scenarios 4. Ethical Considerations and Challenges 5. The Future of AI and ML 6. Deep Learning and Neural Networks 7. Reinforcement Learning and Robotics 8. Time Series Analysis and Forecasting 9. Explainability and Interpretability in AI 10. AI and ML for Business and Decision Making 11. AI in Social Sciences and Humanities 12. Challenges and Limitations of AI and ML 13. The Road Ahead Advances and Future Directions

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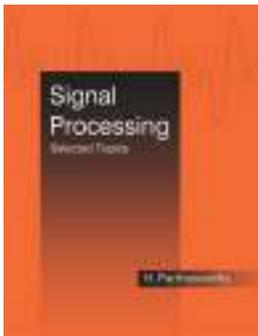
Engineering Mathematics

A Project & Problem Based Approach

H. Parthasarathy

Contents: Acknowledgements, Preface, 1 The Derivative and the Integral, 2 Ordinary Differential equations, 3 Solved Examples, 4 Solved examples, 5 Linear algebra and matrix theory, 6 Fourier series and transforms, 7 Partial differential equations, 8 Functions of a complex variable, 9 Laplace transforms, 10 Vector algebra, 11 Vector calculus, 12 Probability theory and statistics, 13 Riemannian geometry and tensor calculus, 14 Selected topics in Group theory with applications, 15 Perturbation theory for differential equations, 16 Calculus of variations, 17 Stochastic filtering theory, 18 Generalized functions, 19 Simulation of analog systems on the digital computer, 20 Basic Circuit and System theory, 21 MATLAB Exercises, 22 Appendix: Reprints of some technical reports from DSP lab at NSIT, 23 Miscellaneous solved and unsolved problems in engineering mathematics, Bibliography, Index.

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Signal Processing

Selected Topics

H. Parthasarathy

Contents: 1. Applications of Group Representations to Image Processing 2. Quantum Signal Processing 3. Large Deviations 4. Stochastic Problems 5. Stochastic Problems in General Relativity 6. Projects for computer simulation

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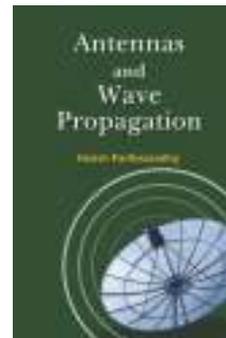


Advanced Engineering Physics

H. Parthasarathy

Contents: 1. Mechanics 2. Fluid Dynamics 3. ElectroMagnetics 4. Relativity 5. Quantum Mechanics 6. Circuit Theory 7. Optics 8. Solid State Physics 9. Digital Signal Processing 10. Probability 11. Statistical Physics

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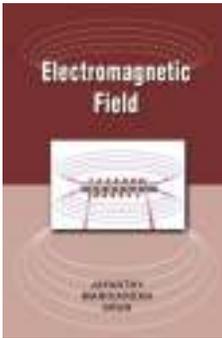


Antennas and Wave Propagation

Harish Parthasarathy

Contents: 1. Part I: Antennas and wave propagation, basic theory 1: The Maxwell equations in the presence of magnetic charges and magnetic Currents, 2: Antenna parameters, 3: Wire antennas 4: Surface and aperture antennas 5: Antenna arrays 6: Signal processing algorithms for antenna arrays 7: Surface shape estimation from the reflected field pattern 8: The general theory of wave propagation 9: The effect of electromagnetic fields on atoms 10: The effect of gravitational fields on global positioning systems Part II: Transmission lines and waveguides 1: Computing the distributed parameters of a transmission line using the Maxwell theory 2: The basic linear transmission line equations and their frequency domain analysis 3: Time domain analysis of a transmission line 4: Stub matching for transmission lines 5: Quantum mechanical methods for estimating the distributed parameters of a transmission line 6: Coupled Transmission lines 7: Transmission lines with random input 8: Transmission lines with randomly fluctuating distributed parameters 9: Numerical simulation of transmission lines by spatio-temporal discretization 10: Analysis of transmission lines with non-linear and memory effects taken into account 11: The basic theory of rectangular homogeneous waveguides Part III: DSP tools applied to antennas, transmission lines and waveguides 1: Signal Sampling and reconstruction 2: Difference equations, LTI systems in discrete time and the Z-transform 3: Perturbation theoretic analysis of nonlinear systems 4: Random signals through linear and nonlinear systems in discrete time 5: Discrete time linear and nonlinear system identification 6: Linear and nonlinear filter design 7: Adaptive filters

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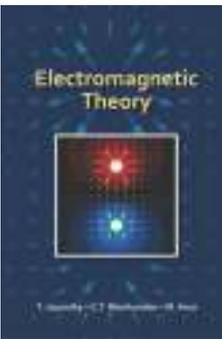


Electromagnetic Field

Jayanthi
Manikandan
Arun

Contents: UNIT 1 Static Electric Field. UNIT 2 Conductor and Dielectrics. UNIT 3 Static Magnetic Fields. UNIT 4 Magnetic Forces and Materials. UNIT 5 Time Varying Fields of Maxwells Equation.

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Electromagnetic Theory

T. Jayanthi
C.T. Manikandan
M. Arun

Contents: UNIT 1 : Electrostatics I, UNIT 2: Electrostatics II, UNIT 3: Magnetostatics, UNIT 4: Electrodynamic Fields, UNIT 5: Electromagnetic Waves, Model Question Papers.

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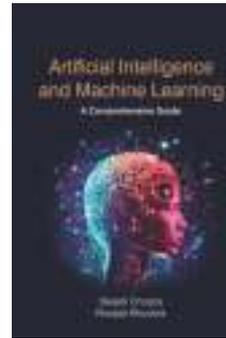


Modern Control Theory

Anoop K. Jairath

Contents: 1. Introduction. 2. Matrices. 3. Laplace Transform. 4. MATLAB Basics. 5. Control System-Basic Theory. 6. State Space Concepts and Analysis of State Equations. 7. State Space modeling. 8. Controllability and Observability. 9. State feedback Design. 10. State Estimation.

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Artificial Intelligence and Machine Learning A Comprehensive Guide

Deepti Chopra
Roopal Khurana

Contents: 1. Foundations of Artificial Intelligence and Machine Learning 2. Machine Learning Algorithms and Techniques 3. AI Applications in Real World Scenarios 4. Ethical Considerations and Challenges 5. The Future of AI and ML 6. Deep Learning and Neural Networks 7. Reinforcement Learning and Robotics 8. Time Series Analysis and Forecasting 9. Explainability and Interpretability in AI 10. AI and ML for Business and Decision Making 11. AI in Social Sciences and Humanities 12. Challenges and Limitations of AI and ML 13. The Road Ahead Advances and Future Directions

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Electronic Components & Applications

V.R. Deo

Contents: 1. Resistors 2. Capacitors 3. Inductors 4. Cables 5. Connectors 6. Switches 7. Relays 8. Displays 9. Integrated Circuits (ICs) 10. SMD and SMT 11. Printed Circuit Boards 12. Environmental Protection

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Algorithms For Matrix Computation with FPGA Implementation

(Including MATLAB & VERILOG Coding)

Dr. Shirshendu Roy

Assistant Professor,

Dayananda Sagar University, Bengaluru



Contents: Preface, 1 Basics of Linear Algebra 1.1 Introduction 1.2 Matrix Definition 1.3 Matrix Operations 1.4 Vector Operations 1.5 Some More Special Matrices 1.6 Determinant 1.7 Inverse of a Matrix 1.8 Multiplication of Triangular Matrices 1.9 Complex Matrix Multiplication 1.10 Eigenvalue Values and Eigenvector 1.11 Positive Definite Matrix 1.12 Conclusion 2 Linear Systems 2.1 Introduction 2.2 Linear Equation 2.3 Linear System 2.4 Types of Linear Equation 2.5 Linearly Dependent Systems 2.6 Sparse Systems 2.7 Solving Inconsistent Systems 2.8 Application of Linear Algebra 2.9 Conclusion 3 Matrix Factorization Based Algorithms 3.1 Introduction 3.2 Solving Linear Equations 3.3 Direct Techniques 3.4 Matrix Inverse Based Techniques 3.5 Schur-Banachiewicz Block Wise Inversion 3.6 Conclusion 4 Iterative Algorithms 4.1 Introduction 4.2 Stationary Iterative Techniques 4.3 Gradient Based Iterative Methods 4.4 Row Based Iterative Algorithms 4.6 Conclusion 5 Basics of FPGA Implementation 5.1 Introduction 5.2 Binary Number System 5.3 Basic Combinational Blocks 5.4 Basic Sequential Blocks 5.5 Memory Design 5.6 Different Architectures and Design Metrics 5.7 FPGA Implementation Basics 5.8 Advanced FPGA Features 5.9 Conclusion 6 Digital Architectures for Linear Systems Part 1 6.1 Introduction 6.2 Architecture for Matrix Multiplication 6.3 Architecture for Back-Propagation 6.4 Matrix Inversion Architectures 6.5 Conclusion 7 Architectures for Linear System Solver 7.1 Introduction 7.2 QR Decomposition Based Direct Linear Solver 7.3 CORDIC Based Direct Linear Solver 7.4 Modified Cholesky Based Direct Linear Solver 7.5 MIB Based Direct Linear Solver 7.6 Performance of Direct Linear Solvers 7.7 Conclusion 8 Matrix Dimensionality Reduction Techniques 8.1 Introduction 8.2 Singular Value Decomposition 8.3 Principal Component Analysis 8.4 Linear Discriminant Analysis 8.5 ICA 8.6 Conclusion 9 Vector Classification Techniques 9.1 Introduction 9.2 Regression Based Classifiers 9.3 K-Means Algorithm 9.4 KNN Algorithm 9.5 Support Vector Machine 9.6 Confusion Matrix 9.7 Conclusions 10 Compressed Sensing 10.1 Introduction 10.2 CS Based Signal Reconstruction Framework 10.3 Recovery Algorithms 10.4 OMP Algorithm for Signal Reconstruction 10.5 Hardware Implementation of OMP Algorithm 10.6 GE Based Signal Reconstruction Framework 10.7 Incremental Gaussian Elimination Approach 10.8 Summary 11 Appendix 1 12 Appendix 2 13 CORDIC Algorithm 13.1 Introduction 13.2 Theoretical Background 13.3 Vectoring Mode 13.3.1 Computation of Sine and Cosine 13.4 Linear Mode 13.5 Hyperbolic Mode 13.6 Example of CORDIC Iteration 13.7 Implementation of CORDIC Algorithms 13.8 Conclusion References, Index

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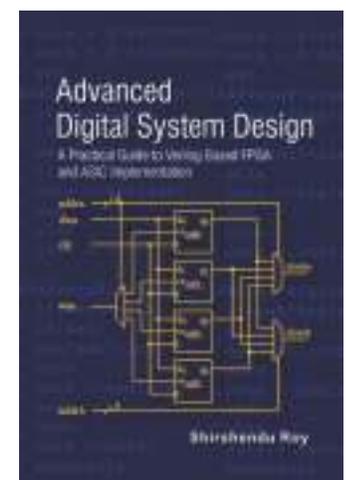
Advanced Digital System Design

A Practical Guide to Verilog Based FPGA and ASIC Implementation

Shirshendu Roy

Contents: 1 Binary Number System 2 Basics of Verilog HDL 3 Basic Combinational Circuits 4 Basic Sequential Circuits 5 Memory Design 6 Finite State Machines 7 Design of Adder Circuits 8 Design of Multiplier Circuits 9 Division of Modulus Operation 10 Square Root and its Reciprocal 11 CORDIC Algorithm 12 Floating Point Architectures 13 Timing Analysis 14 Digital System Implementation 15 Low Power Digital System Design 16 Digital System Design Examples, Abbreviations, References, Index

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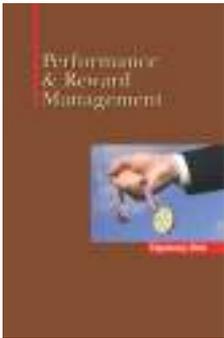




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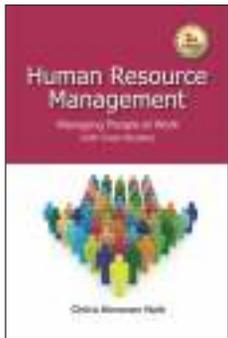


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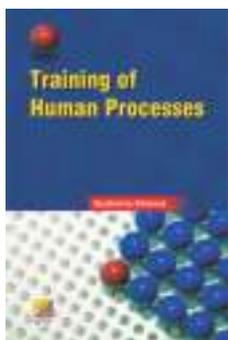


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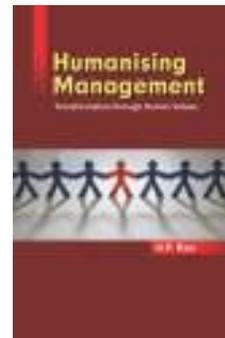


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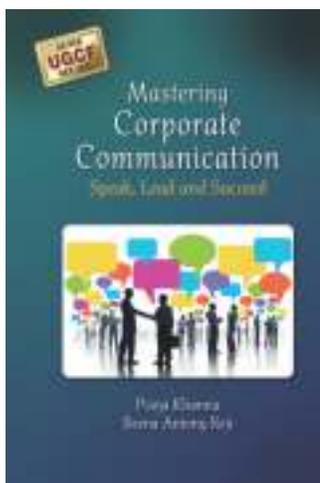
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Speak, Lead and Succeed

Pooja Khanna
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Empowering Communities

Community Development through Student outreach and Internship

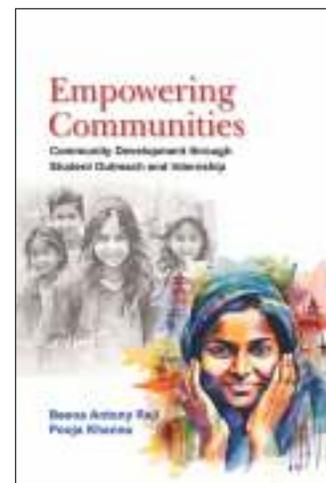
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- "Community Development through Student Outreach and Internship" is a comprehensive guide designed to facilitate meaningful community engagement through student outreach and internship programs.
- It emphasizes the belief that every individual, regardless of background or expertise, has the potential to contribute significantly to community development.
- The book provides a roadmap for those who aspire to create positive change, offering an understanding, practical tools, techniques, personal reflections, and ethical considerations to guide their journey.
- Through diverse voices and experiences, it covers foundational concepts of community organization and practical strategies for effective outreach programs.
- Ultimately, "Community Development through Student Outreach and Internship" serves as a tribute to the dedication of community workers, volunteers, and students. Inviting readers to join a journey of discovery, challenge, and transformation towards empowering communities and transforming lives.

Key Takeaways

- Comprehensive coverage: "Community Development through Student Outreach and Internship" offers a comprehensive exploration of community outreach, from defining the concept of community to practical guidance on designing outreach programs across various domains.
- Practical guidance: The book provides actionable insights on working effectively with communities, including building trust, fostering cultural competence, and mastering communication strategies, ensuring readers have the tools they need for successful engagement.



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Team Building

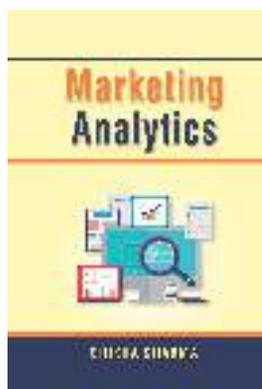
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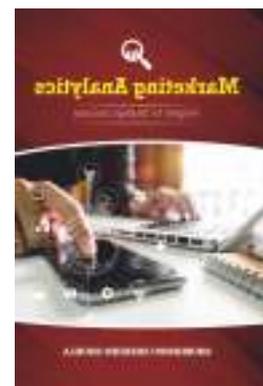
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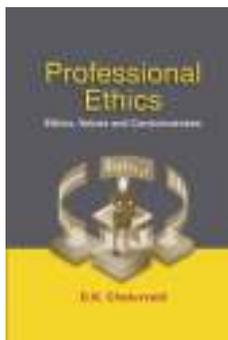
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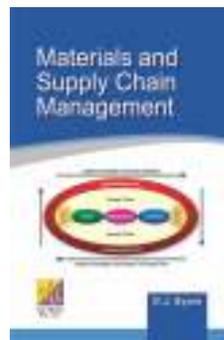
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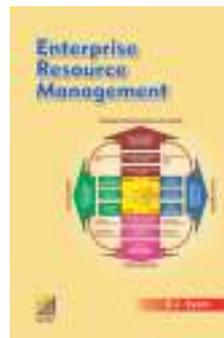
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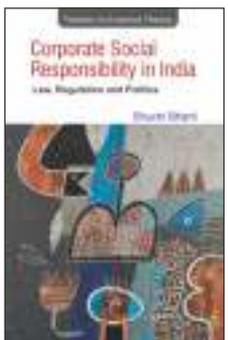


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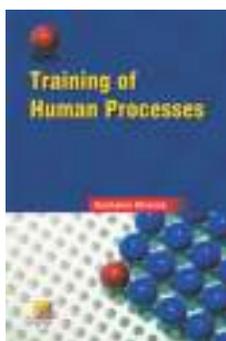
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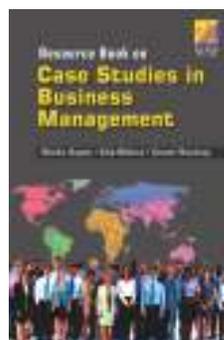


Training of Human Processes

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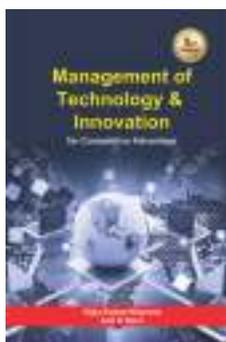


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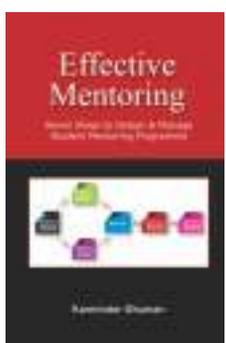


Handbook of Organisational Development: Ways to Remain Competitive

Ishwar Dayal

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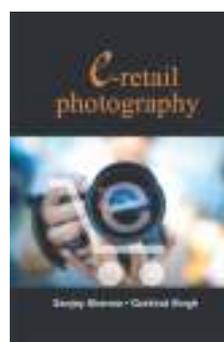
Effective Mentoring: Seven Steps to Design & Manage Student Mentoring Programme

Karminder Ghuman

About the Book: This research-informed and practitioner-approved book is essentially a how-to manual on structured, formal and facilitated student mentoring programme at an educational institution. It has been designed and developed for the practitioners to:

- Guide and handhold the institutions to design, implement and assess their mentoring programme through a step-by-step approach.
- Codify the tenets and principles of mentoring into a simple to comprehend and easy to implement mentoring programme.

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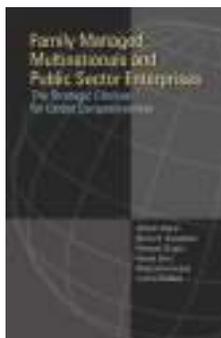


e-retail Photography

Sanjay Sharma
Gurkirat Singh

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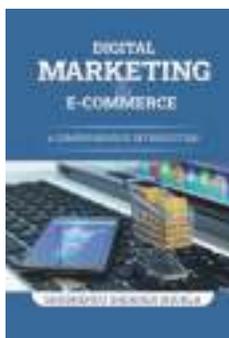
Family Managed Multinationals and Public Sector Enterprises

The Strategic Choices for Global Competitiveness

Ishwar Dayal, Mirza S. Saiyadain
Deepak Dogra, Kewal Soni
Poornima Gupta, Lubna Nafees

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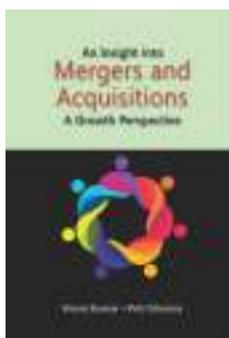
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A Comprehensive Introduction

Shubhendu Shekhar Shukla

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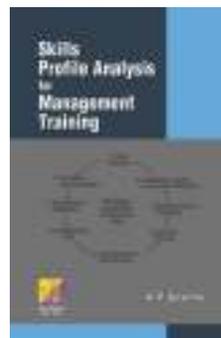
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A Growth Perspective

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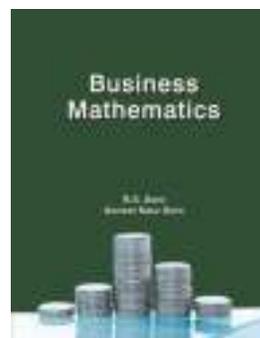


Skills Profile Analysis For Management Training

A.P. Saxena

Contents: 1. Managerial Skill Requirements – A Systematic Analysis, 2. Tools and Process of Skills Profile Analysis, 3. A Real-time Analysis of Management Needs, 4. Skills Profile Analysis in a Department, 5. A Project Concept for MSA, 6. Designing a Management Skills Programme

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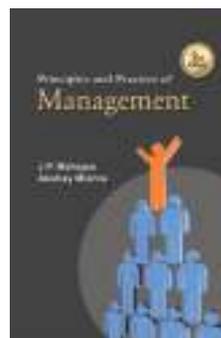


Business Mathematics

R.S. Soni
Avneet Kaur Soni

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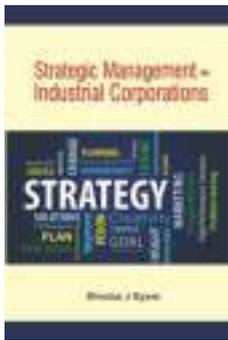
Principles & Practice of Management

2/Ed

J.P. Mahajan

Contents: 1 Introduction to Management, 2 Management Thought, 3 Managing Environment, 4 CSR & Managerial Ethics, 5 Managerial Planning, 6 MBO, 7 Managerial Decision Making, 8 Organising, 9 Formal & Informal Org, 10 Delegation & Decentralisation, 11 Motivation, 12 Leadership, 13 Communication, 14 Controlling, 15 Organisational Change, OD & L O, 16 Entrepreneurship, 17 Operations Management, 18 Financial Management, 19 Marketing Management, 20 Human Resource Management.

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D.J. Syam

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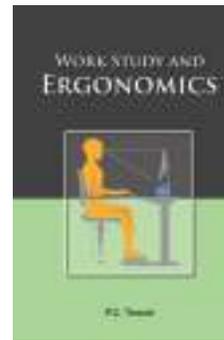


Training and Development in Organisation

Sangeeta Malik

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P.C. Tewari

Contents: Productivity, Introduction To Work Study, Method Study, Work Measurement, Ergonomics

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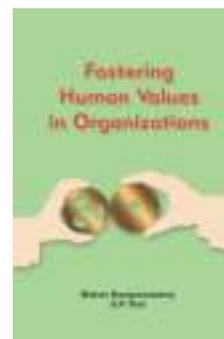


Governance and Administrative Reforms

A.P. Saxena

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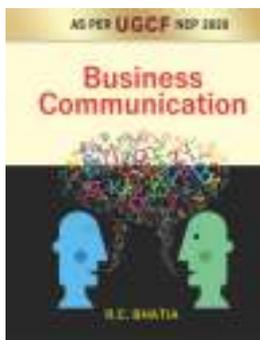


Fostering Human Values in Organisations

Mohan Bangaruswamy
G.P. Rao

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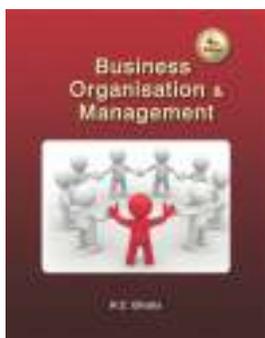


Business Communication
As per CBCS Syllabus
2/Ed.

R. C. Bhatia

Contents: PART I : BASICS OF COMMUNICATION 1. Communication: Its Meaning, Importance, and Process 2. Objectives of Communication 3. Means/Media and Types of Communication 4. Verbal Communication: Written 5. Non-Verbal Communication 6. Formal vs. Informal Channels of Communication 7. Types of Communication 8. The Cs of Good Communication 9. Barriers to Communication 10. Modern Technology 11. Groups: Their Importance and Characteristics 12. Techniques of Group Decision Making 13. Tips for Clear Writing 14. Intrapersonal Communication 15. Interpersonal Communication 16. Self-Development and Communication 17. Communication Models 18. Interview 19. SWOT Analysis 20. Reports 21. Speeches and Presentation 22. Documentation, Bibliography and Methodology PART II : BUSINESS CORRESPONDENCE 23. Definition, Meaning and Importance of Business Correspondence 24. Essential Features of Business Letter 25. Parts of a Business Letter and their Layout 26. Letters Written in Purchase Transaction 27. Enquiry Letter 28. Quotation Letter 29. Order Letter 30. Letter of Acceptance of Order (Confirmation of Order) and Refusal of Order 31. Follow up Letter and Cancellation of Order Letter 32. Compliance Letter 33. Complaints, Claims and Adjustment Letters 34. Collection Letter (Dunning Letters) 35. Letter of Introduction and Testimonial 36. Letter of Offer 37. Circular Letters 38. Sales Letter (Trade Circular or Sales Promotion Letter) 39. Agency Letters 40. Telegrams and Confirmations 41. Drafting the Advertisements PART III : BANKING CORRESPONDENCE 42. Banking Correspondence 43. Letters Written by Customer to Bank 44. Letters Written by Bank to Customer 45. Credit, Financial or Status Enquiries PART IV : OFFICIAL CORRESPONDENCE 46. Types of Official Correspondence 47. Notice, Agenda and Minutes of Various Official Meetings 48. Correspondence of a Company Secretary 49. Insurance Correspondence PART V : GRAMMAR 50. Words 51. Words Classes 52. Words Groups 53. Punctuation & Capitalization 54. Reading Comprehension 55. Speaking & Listening 56. Common Errors, Index.

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R. C. Bhatia

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A Strategic Perspective
(Revised & Updated)

S.C. Gupta

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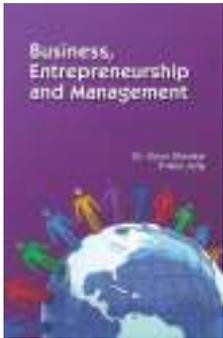


Accounting for Managers
Effective Techniques
for Decision Making
3/Ed Revised Ed.

S. Jayapandian

Contents: Preface, 1. Concept of Accounting, 2. Accounting for Managers, 3. Financial Accounting, 4. Understanding Financial Statements, Chapter 5. Financial Statement Analysis, 6. Sources and Uses of Funds, 7. Cost and Cost Accounting, 8. Job Costing, Chapter 9. Process Costing, 10. Marginal Costing, 11. Cost, Volume, Profit Analysis, 12. Standard Costing, 13. Budgetary Control, 14. Capital Budgeting, 15. Inflation Accounting, 16. On Intangible Assets, 17. Revenue Recognition, Appendix, Index.

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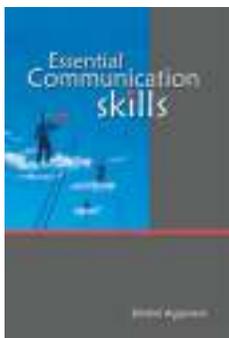


Business, Entrepreneurship and Management

Dr. Gauri Shankar
Trisha Jolly

Contents: 1. Understanding Ownership Structure 2. Setting up of A Small Business Enterprise 3. Understanding Entrepreneurship 4. Major Problems of SSI 5. Market and Society 6. Management 7. Managing Finances and Human Resources of an Organisation

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Shalini Aggarwal

Contents: Preface, Acknowledgement, 1. Basics of Communication 2. Types of Communication 3. Barriers to Effective Communication 4. Listening Skills 5. Group Communication/ Meetings 6. Presentation Skills 7. Business Etiquette 8. Business Ethics 9. Impact of IT on Communication 10. Writing Effective Business Messages 11. Types of Business Messages 12. Business Reports 13. Business Proposals 14. Resumes and Application Letters 15. Interview 16. Case-Study Analysis, Index.

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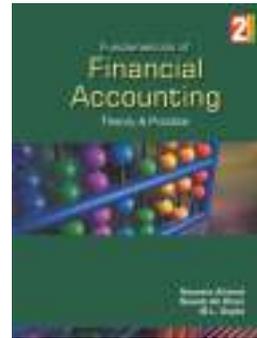


Fundamentals of Cost Accounting Principles and Practice

H.V. Jhamb

About the Book: The book focuses on all aspects of cost accounting useful to managers in their normal functioning of Cost Control and Profit Planning. It provides a comprehensive coverage to suit the requirements of Undergraduate and Postgraduate courses such as B.Com, B.Com (Hons.), M.Com and Professional courses such as BBA, CA, ICWA, MBA, MIB, MHROD and even the managers.

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Fundamentals of Financial Accounting

Theory & Practice
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Naseem Ahmed
Nawab Ali Khan
M.L. Gupta

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HR Analytics

Sangeeta Malik

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J.P. Mahajan

Contents: Unit I: Nature of Business and Form of Business 1. Business, Industry and Commerce 2. Introduction to Forms of Business Organisation 3. Sole Proprietorship 4. Partnership 5. Joint Stock Company 6. Factory Organisation Unit II: Nature of Organisation of Human Resource Management 7. Nature, Scope and Functions of HRM 8. Role and Challenges of HRM 9. Human Resource Development 10. Job Analysis Unit III: Recruitment and Selection 11. Human Resource Planning 12. Recruitment 13. Selection and Placement.

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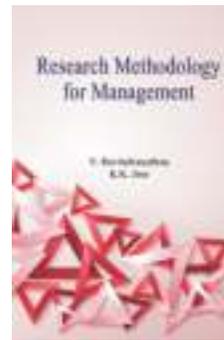


Manufacturing Operations Management

Sanjay Sharma

Contents: 1. Introduction 2. Facilities Planning 3. Demand Forecasting 4. Production Planning and Control 5. Work Study 6. Inventory Management 7. Inspection and Quality Control 8. Project Management 9. Financial Management, Exercises, Bibliography

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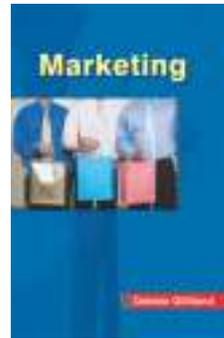


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N Ravindranathan
K.K. Jose

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Marketing

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Contents: 1. Corporate strategy 2. Strategic marketing 3. Marketing management and planning 4. Service marketing management 5. Consumer buyer behaviour 6. Organization buying behaviour 7. Marketing segmentation, targeting and positioning 8. Marketing information and research 9. Product management 10. Marketing communications 11. Price 12. Channel management 13. Extended marketing mix 14. Relationship marketing, Index.

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Invitation to Authors

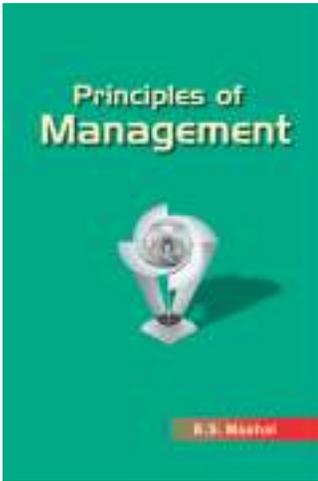


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Principles of Management

B. S. Moshal



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Preface, 1. Conceptual Framework of Management 2. Management Process, Roles and Functional Areas 3. Organisation and Management: Historical Perspective 4. Planning Function of Management 5. Plans: Types and Techniques 6. Business Policy and Strategy Formulation 7. Decision Making in an Organisation 8. Organisational Design and Process 9. Horizontal Dimension: Departmentalisation 10. Vertical Dimension: Authority and its Delegation 11. Organisational Structures 12. Motivating People at Work 13. Leadership in an Organisation 14. Communication Network in an Organisation 15. Controlling Process in an Organisation 16. Controlling Techniques and Coordination 17. Management of Organisational Change and Development 18. Management Case Study Method.

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Organisational Theory and Behaviour

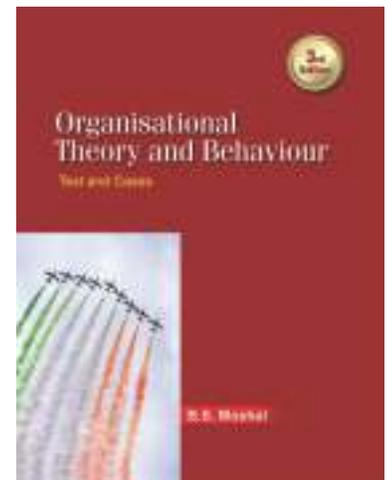
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1. Understanding Organisation 2. Organisational Objectives 3. Organisation and Social Responsibility 4. Business Environment 5. Organisational Behaviour 6. Foundation of Individual Behaviour 7. Conceptual Framework of Management 8. Organisation and Management Historical Perspective 9. Organisational Design and Process 10. Horizontal Dimension: Departmentalisation 11. Vertical Dimension: Authority and its Delegation 12. Organisational Structures 13. Decision Making in an Organisation 14. Business Policy and Strategy Formulation 15. Motivating People at Work 16. Leadership in an Organisation 17. Communication Network in an Organisation 18. Controlling Process in an Organisation 19. Emotional Intelligence 20. Knowledge Management 21. Interpersonal Relations and Group Dynamics 22. Organisational Power and Politics 23. Organisational Conflicts 24. Employee's Grievance: Process of Handling 25. Managing Stress in Organisation 26. Organisational Change and Development 27. Organisational Culture 28. Building and Using Teams in an Organisation 29. Management Case Study Methods

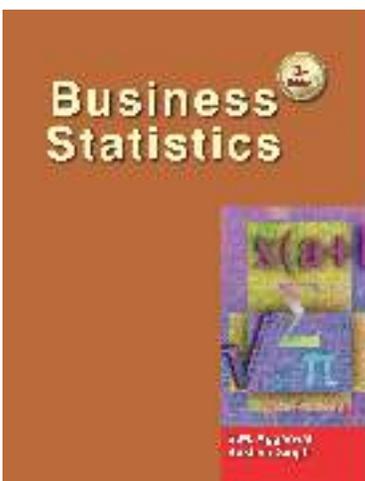
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Business Statistics

3/Ed

B.M. Aggarwal, Sukhvir Singh



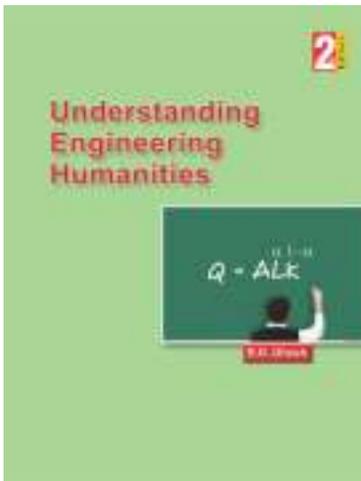
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Understanding Engineering Humanities

B.N. Ghosh



Contents

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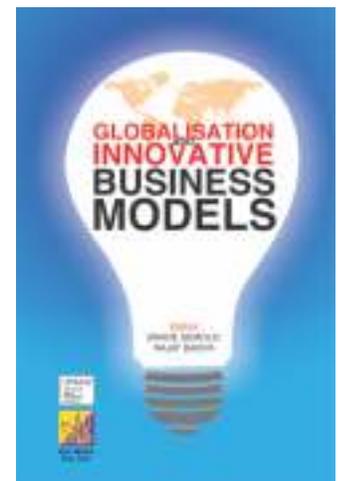
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Contents

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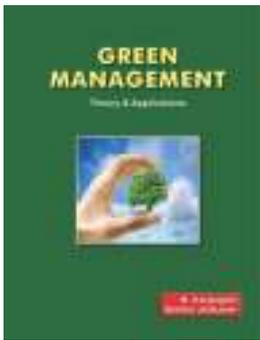
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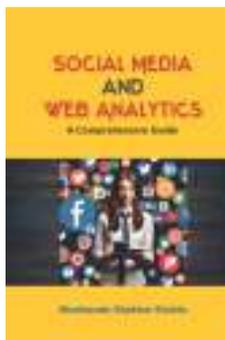
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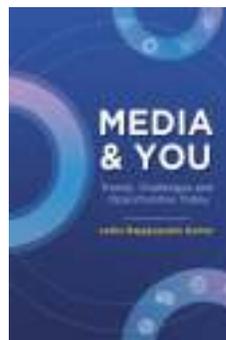


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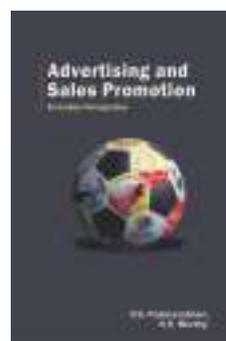


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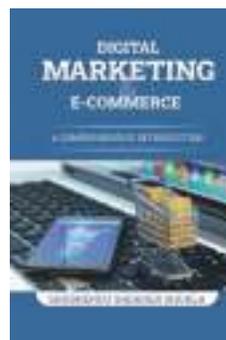


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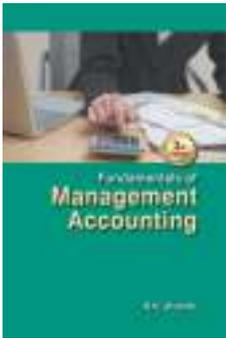


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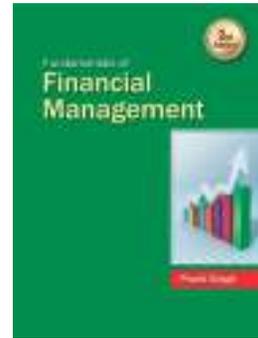
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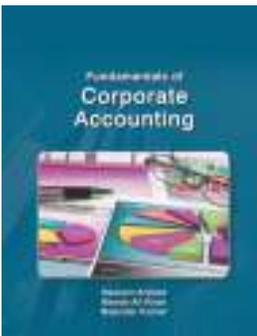
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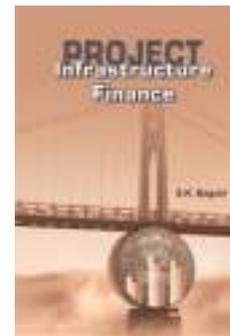


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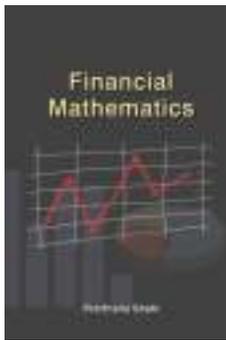


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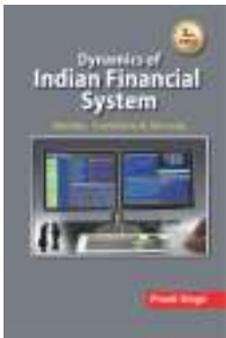


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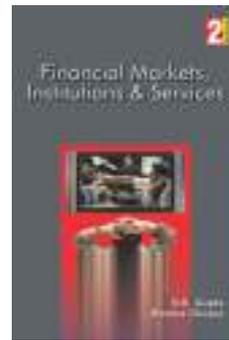


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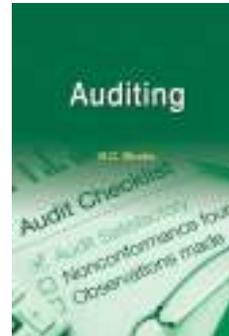
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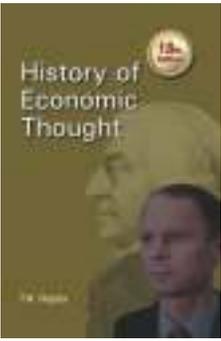
Auditing

R.C. Bhatia

Contents: 1. Auditing: Meaning, Definitions, Objects 2. Types of Audit 3. The Audit Process: Internal Control, Check and Audit 4. Audit Programmes 5. Vouching 6. Verification of Assets and Liabilities 7. Audit of Joint Stock Companies: Company Auditor: appointment, Qualification, Right and Duties 8. Audit Report 9. Depreciation, Provisions and Reserves 10. Company Audit 11. Special Audit 12. Divisible Profits and Dividends 13. Investigations 14. Cost Audit and Management Audit 15. Mechanised Accounting 16. Internal Control in a Computer-based Accounting System 17. Electronic Data Processing 18. The Audit System of Cost Accounts 19. Liabilities of Professional Accountant 20. Audit Processes, Important Questions and Answers

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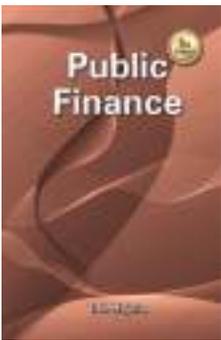


History of Economic Thought
18/Ed

T.N. Hajela

About the Book: The book discusses the development of the history of economic thought from the earliest times to the most recent times. Part One deals with the development of economic thought in Western Countries. Book One deals with the economic thought in ancient times and medieval ages. Book Two gives in detail the pre-classical economic thought. Book Three deals with the economic thought of the classicism. Book Four discusses the economic thought of the critics of the classical school. Book Five deals with the restatement of the classicism. Book Six covers the economic thought of the subjectivists, marginalists and neo-classicals. Book Seven gives the economic thought as it developed as a reaction to neo-classicism Institutionalism, Welfare Economics, General Equilibrium Economics. Book Eight discusses the Keynesian Economics and Post Keynesian developments in Economic Thought and Book Nine discusses the development of some of the important theories as also gives the contribution of the Nobel Laureates and other prominent economists. Part Two deals with the Indian Economic Thought and covers the economic thought of the modern times.

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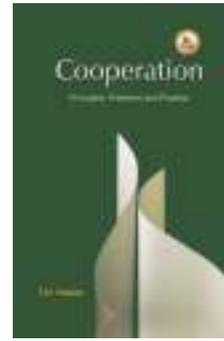


Public Finance
5/Ed

T.N. Hajela

Contents: PART ONE : THEORY OF PUBLIC FINANCE 1. Nature and Significance of Public Finance, 2. The Theory of Public Finance, 3. The Principle of Maximum Social Advantage, 4. Public Revenue—General Issues, 5. The Distribution of Tax Burden, 6. Taxable Capacity, 7. Impact and Incidence of Taxes, 8. Prof. Musgrave on Shifting of Incidence, 9. The Problem of Excess Burden and the Principle of Tax Neutrality, 10. Problem of Double Taxation, 11. Classification and Choice of Taxes, 12. Value Added Tax (VAT), 13. Effects of Taxation, 14. Public Expenditure—General Issues, 15. Objectives and Principles of Public Expenditure, 16. Effects of Public Expenditure, 17. Public Debt—General Issues, 18. Management of Public Debt, 19. The Public Budget, 20. Techniques of Budgeting, 21. Fiscal Policy, 22. Deficit Financing, 23. Development Finance, 24. Financial Administration, 25. Principles of Federal Finance, 26. Public Enterprises, PART TWO: INDIAN PUBLIC FINANCE 27. Indian Federal Finance, 28. Finance Commissions and Their Recommendations, 29. Review of Centre-State Financial Relations in India, 30. Public Expenditure in India, 31. Public Debt in India, 32. Railway Finance in India, 33. Sources of Revenue of Central Government in India (Tax and Non-Tax Revenue), 34. Sources of Revenue of State Governments in India, 35. Local Finance in India, 36. The Indian Tax System : General Observations, Appendix: Government of India Budgets 2013-14 and 2014-15.

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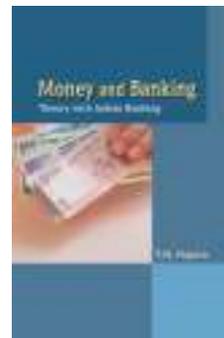


Cooperation
Principles, Problems and Practice
8/Ed

T.N. Hajela

Contents: PART - I INTRODUCTION 1. Meaning and Significance of Cooperation 2. Cooperation and Other Business Enterprises 3. Problems of Cooperation PART - II PRACTICE OF COOPERATION IN FOREIGN COUNTRIES 4. Cooperative Movement in Germany 5. Cooperative Movement in Germany 6. Cooperative Movement in Denmark 7. Cooperative Movement in Ireland 8. Cooperative Movement in Japan 9. Cooperative Movement in USA 10. Cooperative Movement in Canada 11. Cooperative Movement in China 12. Cooperative Movement in Israel 13. Cooperative Movement in Sweden 14. Cooperative Movement in Italy 15. Cooperative Movement in France 16. International Cooperative Alliance and PART - III PRACTICE OF COOPERATION IN INDIA 17. Origin and Development of Cooperative 18. Cooperative Legislation and Administration 19. Rural Cooperative Credit-Principles and Policy 20. Primary Agricultural Credit Societies 21. District Central Cooperative Banks 22. District Central Cooperative Banks 23. Long-term Cooperative Credit Structure AGRICULTURAL COOPERATION 24. Cooperative Production: 25. Cooperative Supply (Service Cooperatives) 26. Cooperative Agricultural Marketing 27. Cooperative Processing of Agricultural Produce 28. Cooperative Storage of Agricultural Produce, NON-AGRICULTURAL COOPERATION 29. Consumers' Cooperative Societies 30. Cooperative Housing 31. Urban Financial Cooperative Societies 32. Industrial Cooperatives 33. Workers' Cooperative Productive Societies 34. Dairy Cooperatives HUMAN RESOURCE DEVELOPMENT IN COOPERATIVES 35. Nature and Significance of Human Resource 36. Cooperative Education and Training • Select Bibliography • Abbreviations • Name Index • Subject Index

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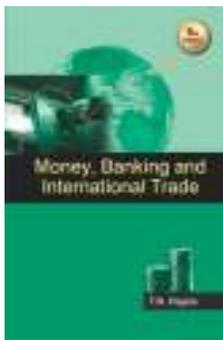


Money and Banking
Theory with Indian Banking

T.N. Hajela

About the Book: This edition has been thoroughly revised, updated and rewritten. The book has been divided into three parts containing 25 chapters in all. Part One on Money comprises thirteen chapters. Part Two on Banking Theory contains six chapters. Part Three deals with the Banking in India. It comprises six chapters. At the end, two appendices have been added which cover significant subjects in view of the prevailing macro-economic conditions in India. Since, this is a textbook primarily meant for the students of undergraduate and postgraduate courses in economics of the Indian universities; it covers broadly the syllabi of almost all the universities.

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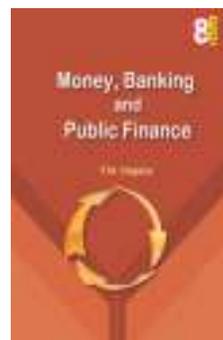
Money, Banking and International Trade

9/Ed

T.N. Hajela

Contents: MONEY AND BANKING PART ONE : MONEY 1. Evolution and Functions of Money 2. The Role of Money 3. The Circular Flow of Money 4. The Demand for Money 5. The Supply of Money 6. The Determination of Value of Money transactions Approach 7. The Determination of Value of Money the Keynesian Approach 8. Friedman Reformulation of Quantity Theory of Money 9. Measurement of Changes in the Value of Money 10. Inflation, Deflation and Reflation 11. Phillips Curve and Stagflation 12. Theories of Trade Cycles 14. Money and Capital Markets 15. Organisation and Structure of Commercial Banks 16. Credit Creation by Commercial Banks 17. Functions of the Central Bank 18. Central Bank and Credit Control 19. Monetary Policy 20. Indian Money Market and Capital Market 21. The Indian Banking System 22. Commercial Banks in India 23. Nationalisation of Banks in India 24. The Reserve Bank of India 25. Monetary Policy of Reserve Bank of India INTERNATIONAL TRADE PART ONE : INTERNATIONAL TRADE AND EXCHANGE 26. Theory of International Trade(The Law of Comparative Cost) 27. Modern Developments in Theory of International Trade 28. Gains from Trade and Terms of Trade 29. Free Trade versus Protection 30. Tariffs and Quotas 31. Balance of Payments 32. Problem of International Payments (Exchange Market) 33. Problem of Exchange Rates 34. Exchange Control 35. India Foreign Trade 36. India Balance of Payments 37. International Monetary System 38. International Monetary Fund 39. Problems of International Liquidity 40. International Bank for Reconstruction and Development 41. World Trade Organisation 42. UN Conference on Trade and Development

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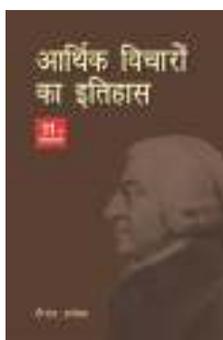
Money, Banking and Public Finance

8/Ed

T.N. Hajela

Contents: MONEY & BANKING, PART ONE: MONEY 1. Evolution and Functions of Money 2. The Role of Money 3. The Circular Flow of Money 4. The Demand for Money 5. The Supply of Money 6. The Determination of Value of Money – Transactions Approach 7. The Determination of Value of Money _ The Keynesian Approach 8. Friedman's Reformulation of Quantity Theory of Money 9. Measurement of Changes in the Value of Money 10. Inflation, Deflation and Reflation 11. Philips Curve and Stagflation 12. Theories of Trade Cycles 13. Post – Keynesian Development in Trade Cycle Theories PART TWO : BANKING THEORY 14. Money and Capital Markets 15. Organisation and Structure of Commercial Banks 16. Credit Creation by Commercial Banks 17. Functions of the Central Bank 18. Central Bank and Credit Control 19. Monetary Policy PART THREE : BANKING IN INDIA 20. Indian Money Market and Capital Market 21. The Indian Banking System 22. Commercial Banks in India 23. Nationalisation of Banks in India 24. The Reserve Bank of India 25. Monetary Policy of Reserve Bank of India Appendices I. Full Convertibility of Rupee II. Management of Foreign Exchange Reserves PUBLIC FINANCE 26. Nature and Significance of Public Finance 27. The Theory of Public Finance 28. The Principle of Maximum Social Advantage 29. Public Expenditure – General Issues 30. Objectives and Principles of Public Expenditure 31. Effects of Public Expenditure 32. Public Expenditure in India 33. Public Revenue - General Issues 34. The Distribution of Tax Burden 35. Taxable Capacity 36. Impact and Incidence of Taxes 37. Prof. Murgrave on Shifting of Incidence 38. Classification and Choice of Taxes 39. Effects of Taxation 40. Sources of Revenue of Central Government in India (Tax and Non-Tax Revenue) 41. Sources of Revenue of State Governments in India 42. Public Debt - General Issues 43. Management of Public Debt 44. Public Debt in India 45. The Public Budget 46. Techniques of Budgeting 47. Budgets of the Government of India Select Bibliography

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आर्थिक विचारों का इतिहास

11वां संस्करण

टी.एन. हजेला

पुस्तक के विषय में: "आर्थिक विचारों का इतिहास" राष्ट्र-भाषा में कदाचित पहला प्रयास था, जो भारतीय विद्यार्थियों की आवश्यकताओं की पूर्ति के लिए किया गया था। इस का पहला संस्करण 1976 में प्रकाशित हुआ था। उस समय अंग्रेजी भाषा में तो अनेक अच्छी-अच्छी पुस्तकें थीं। किन्तु हिन्दी भाषा में यह पहली पुस्तक थी जिसमें विश्व के विभिन्न भागों में विकसित आर्थिक विचार धाराओं का क्रमानुसार इतिहास प्रस्तुत किया गया है।

साथ ही, यह विभिन्न भारतीय विश्वविद्यालयों के पूर्व-स्नातक एवं उत्तर-स्नातक पाठ्यक्रमों पर आधारित है। इसकी भाषा अत्यन्त सरल है। पुस्तक के दो भाग हैं: प्रथम भाग के 36 अध्यायों में विदेशों में आर्थिक विचारों के विकास का विवरण दिया गया है, और दूसरे भाग के 5 अध्यायों में भारत में आर्थिक विचारों के विकास का विवेचन प्रस्तुत किया गया है। 35 वें अध्याय में 1969 से 2007 तक 61 नोबेल पुरस्कार प्रदत्त अर्थशास्त्रियों के योगदानों का वर्णन पुस्तक की एक अद्वितीय विशेषता है जबकि 36 वां अध्याय अन्य विश्व-प्रसिद्ध अर्थशास्त्रियों के विचारों का विवेचन प्रस्तुत करता है।

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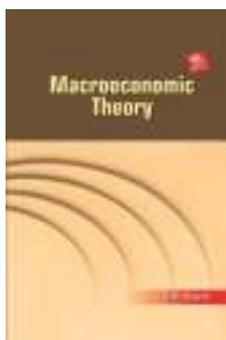
राजस्व के सिद्धान्त

14वां संस्करण

टी.एन. हजेला

पुस्तक के विषय में : "राजस्व के सिद्धान्त" शीर्षक से प्रकाशित पुस्तक राजस्व संबंधी सिद्धान्तों एवं भारतीय राजस्व नीति तथा प्रणाली का अत्यन्त सरल भाषा में सिंहावलोकन प्रस्तुत करती है और यह विशेष रूप से भारतीय विश्वविद्यालयों में पढ़ने वाले विद्यार्थियों की सहायता के लिए लिखी गई है। राष्ट्रभाषा में लिखित यह पहली पुस्तक है जिसमें लोक वित्त के सिद्धान्तों का अध्ययन न्यायपूर्ण एवं सरल भाषा में प्रस्तुत किया गया है।

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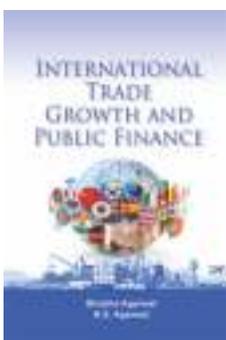


Macroeconomic Theory 10/Ed

T.N. Hajela

Contents: PART ONE : INTRODUCTION 1. Definition and Scope of Macroeconomics PART TWO : NATIONAL INCOME AND ECONOMIC ACCOUNTING 2. National Income and National Product 3. The Circular Flow of Income and Expenditure 4. National Income and Economic Welfare 5. Social Accounting or National Accounting PART THREE : NATIONAL OUTPUT AND EMPLOYMENT 6. Unemployment and Full Employment 7. Theory of Employment 8. The Consumption Function 9. The Theories of Consumption Function 10. The Investment Function 11. The Multiplier and the Accelerator 12. Post-Keynesian Developments in Investment Theory 13. Saving-Investment Equality 14. Keynes Theory of Income and Employment and Under-developed Countries PART FOUR : THEORY OF MONEY 15. Evolution and Functions of Money 16. The Determination of Value of Money: Transactions Approach 17. The Determination of Value of Money: The Keynesian Approach 18. The Neutrality and Non-Neutrality of Money 19. The Real Balance Effect 20. The Supply of Money 21. Creation of Credit 22. Central Banking: Functions and Credit Control PART FIVE : THEORY OF INTEREST 23. The Demand for Money 24. Theories of Interest Rate 25. Term Structure of Interest Rates PART SIX : THEORY OF PRICES 26. Inflation, Deflation and Reflation 27. Price Changes and Level of Unemployment (Phillips Curve and Stagflation) 28. Theories of Trade Cycles 29. Samuelsons Multiplier-Accelerator Interaction Model of Trade Cycle 30. Hicks Model of the Trade Cycle 31. Kaldors Model of the Trade Cycle PART SEVEN : MACROECONOMIC POLICY 32. Objectives of Macroeconomic Policy 33. Monetary Policy: Objectives, Targets and Indicators 34. Operational Aspects of Monetary Policy 35. The Liquidity Theory of Money 36. Fiscal Policy for Stable Growth 37. Fiscal Policy for Economic Development 38. Efficacy of Monetary and Fiscal Policies 39. Coordination between Instruments and Objectives of Monetary and Fiscal Policies 40. Monetarism Versus Keynesianism 41. Non-Banking Financial Intermediaries (NBFIs) Appendix-I—A Note on Supply-Side Economics Appendix-II—A Note on New Classical Macroeconomics, Select Bibliography

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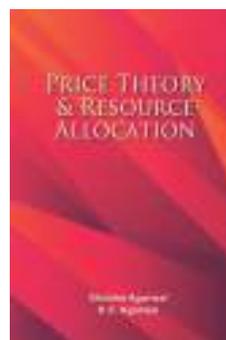


International Trade Growth and Public Finance

Shobha Agarwal H.S. Agarwal

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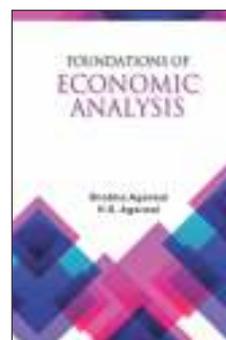


Price Theory & Resource Allocation

Shobha Agarwal H.S. Agarwal

Contents: 1. Nature of Costs and Elasticity of Costs 2. Concept of Revenue 3. Law of Supply and Elasticity of Supply 4. Equilibrium of the Firm and the Industry 5. Pricing and Output under Perfect Competition 6. Interdependent Prices 7. Pricing and Output under Monopoly 8. Monopoly Price Discrimination 9. Monopsony and Bilateral Monopoly 10. Monopolistic Competition 11. Oligopoly 12. Duopoly 13. Limit Pricing Theories 14. Full-Cost Pricing Theory

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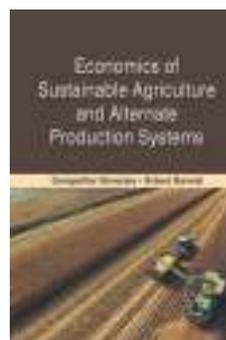


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Shobha Agarwal H.S. Agarwal

Contents: 1. The Nature and Scope of Economics 2. The Methodological Issues in Economics 3. Economic Models 4. Microeconomics and Macroeconomics 5. Economic Statics and Economic Dynamics 6. The Concept of Economic Equilibrium 7. The Role of Price Mechanism

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Economics of Sustainable Agriculture and Alternate Production Systems

Gangadhar Banerjee Srijeet Banerji

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Impact Investment & Transformation of Microfinance in India

Manab Chakraborty

Contents: 1. Introduction 2. Literature Review 3. Evolution of Microfinance in India 4. Theory of Impact Evaluation 5. Research Methodology 6. Impact of Group Lending on Households 7. Analysis of Microfinance Institutions 8. Transformation of Microfinance Institutions 9. Conclusion and Policy Implications, Bibliography Appendixes

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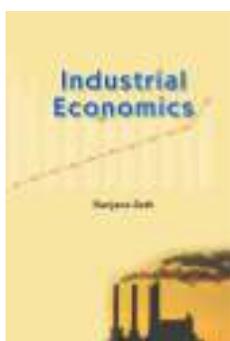


Economics of Environment and Development

Edited by:
Pushpam Kumar

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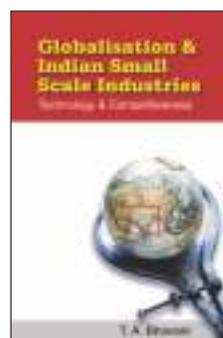


Industrial Economics

Ranjana Seth

Contents: Preface, 1. Industry and Economic Development 2. Market Structure 3. Industrial Location 4. Dispersion and Problem of Regional Imbalance in India 5. Industrial Organisation and Ownership Structure 6. Size Optimum Unit 7. Economics of Scale 8. Rationalisation in Industry Automation and Standardisation 9. Industrial Productivity 10. Introduction to Cost Benefit Analysis 11. Industrial Policy and Indian Planning 12. Multinationals in India 13. Problem's of Large Scale Industries in India 14. Small Scale Enterprises 15. Industrial Development during the Planning Period 16. Nature of Industrial Sickness, Bibliography

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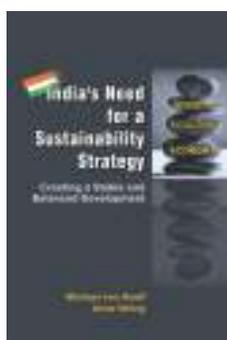


Globalisation & Indian Small Scale Industries Technology & Competitiveness

T.A. Bhavani

Contents: Preface, List of Tables, List of Figures 1. Introduction 2. Indian Small Scale Industries : Stagnant Units in the Dynamic Business Environment? 3. Firm-Level Technological Change : What Does Theory Say? 4. An Eclectic Approach to Study Technological Change 5. Selected Industries, Questionnaire and Sample 6. Empirical Analysis: Methodology 7. Empirical Analysis of Technological Change: Auto Components 8. Empirical Evidence for Technological Change: Electronics Industry 9. Technological Change in the Garments Industry 10. Summary Findings and Policy Suggestions, Appendix A, Appendix B, References, Index.

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India's Need for a Sustainability Strategy Creating a Stable and Balanced Development

Michael von Hauff
Anee Veling

Contents: 1. Introduction 2. Selected Structural Characteristics of India in the Context of Sustainable Development 3. Requirements and Theoretical Basis for a National Sustainability Strategy 4. Requirements for the Sustainability Strategy in India 5. Requirement of Action for a National Sustainability Strategy in India 6. Perspectives and Challenges in the Implementation of a National Sustainability Strategy in India

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India Resurgent and Resilient

Govind Bhattacharjee

Contents: Turbulent Economy, Resilient Institutions, Contentious Polity, Churning Society, Stormy Neighbourhood, Changing World

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India's Service Sector Emerging Perspectives

Edited by
Kawal Gill
K.V. Bhanu Murthy

Contents: 1. Section I: Services Sector in India: Growth, Efficiency and Equity 1. Service Sector in India: Issues and Prospects 2. Determinants of Inter-State Variations in Rural Services Sector 3. Gendered Occupational Segregation in Indian Service Sector 4. Substitution Waiting: Urge for Service Sector in Rural India Section II: Banking and Insurance Sector: Economic and Social Issues 1. Productivity Dynamics in the Service Sector: A Case of Banking Industry in India 2. Conduct of Banking Segments in India: Investment Policy and Asset Structure 3. Improving the Competitiveness of the Banking Sector through the Green Banking Initiatives: With Special Reference to Sri Lanka 4. Investigating Customer Preference for Online Banking Using

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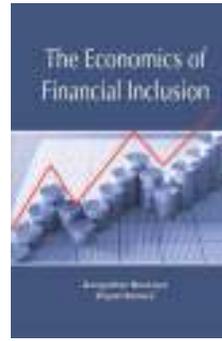
India's Role in the G20 Summit Fostering Diversity in Global Policy and Economic Cooperation

Editors:
Mamta Sharma
Pooja Khanna
Beena Anatomy Reji

About the Book: The G20 Summit stands as a beacon of hope, where the world's leading economies come together to tackle pressing global challenges and foster economic collaboration.

This timeless wisdom echoes profoundly in the pages of this book "India's Role in the G20 Summit: Fostering Diversity in Global Policy and Economic Cooperation." With this profound collection of insights, the book invites us to embark on a journey of discovery and enlightenment, exploring India's pivotal role within the dynamic landscape of the G20 Summit.

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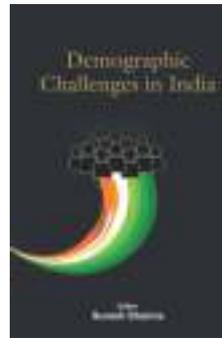


The Economics of Financial Inclusion

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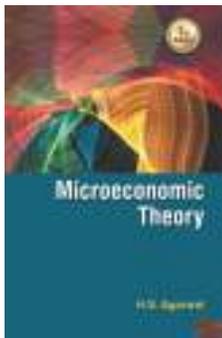


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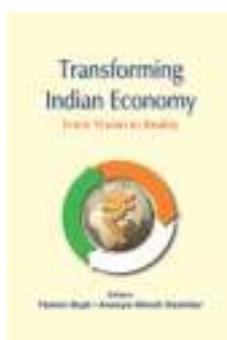
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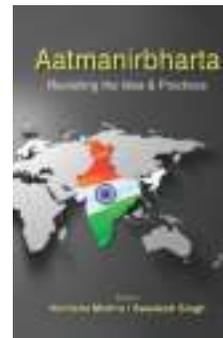
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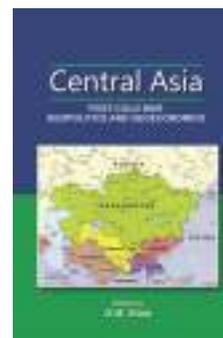
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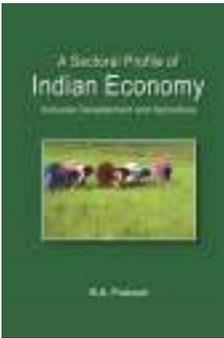
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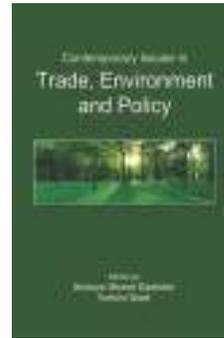


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Introduction to Agricultural Economics and Agribusiness Management

J. M. Talathi
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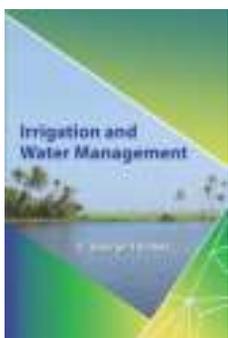


Introduction to Agricultural Economics and Agribusiness Management

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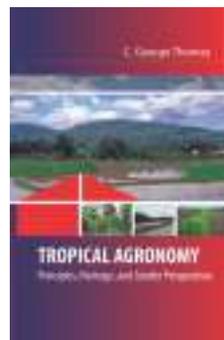


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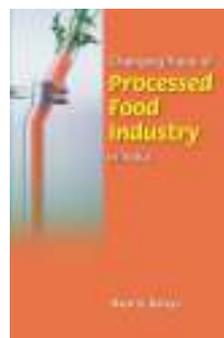


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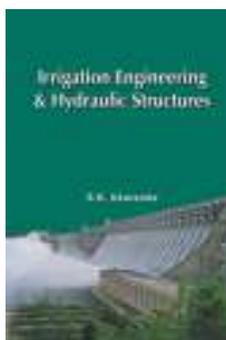


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Rajat K. Baisya

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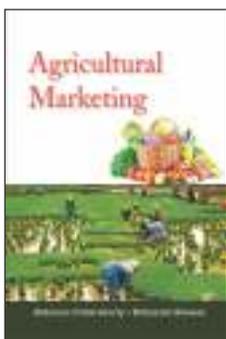


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S.K. Ukarande

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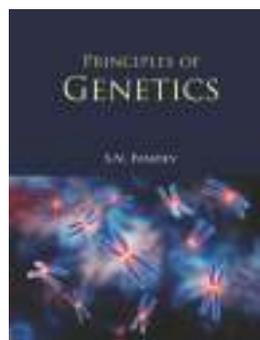


Agricultural Marketing

Debarun Chakraborty
Debasish Biswas

Contents: 1. Introduction to Agricultural Marketing 2. Agricultural Economics 3. Agricultural Finance 4. Role of Information and Communication Technologies (ICT) 5. Important Areas of Agricultural Marketing 6. Agricultural Marketing Infrastructure 7. Supply Chain Management in Agri-Business and Trading of Agricultural Commodities 8. An Introduction to Rural Marketing

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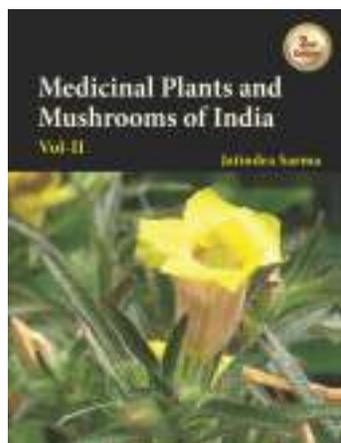
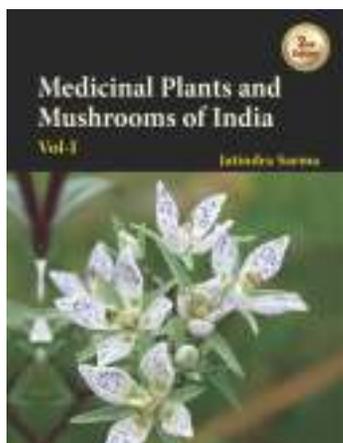


Principles of Genetics

S.N. Pandey

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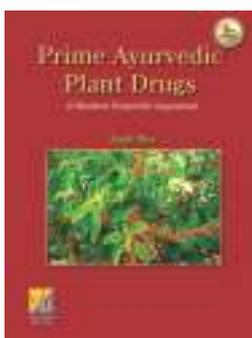
Medicinal Plants and Mushrooms of India

2 Volume Set

Jatindra Sarma

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Prime Ayurvedic Plant Drugs

A Modern Scientific Appraisal
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Sukh Dev

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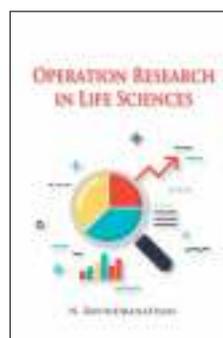


Applied Plant Biotechnology

Manoj Kumar Sharma
M.K. Sharma
Sachin Kumar

About the Book: This book will serve as an ideal textbook for various advances courses of Plant Biotechnology offered in Life sciences (B.Sc. Biotechnology, B.Sc. Microbiology, B.Sc. Bioinformatics, M.Sc. Biotechnology, M. Sc. Microbiology, M.Sc. Botany, etc.) and in agriculture (M.Sc. Genetics and Plant Breeding, M.Sc. Plant Pathology, M.Sc. Entomology, etc.). This book can also be used as self-study material for obtaining basic knowledge and understanding of Biotechnology. This book contains History of Plant Biotechnology to latest information in the field of plant biotechnology.

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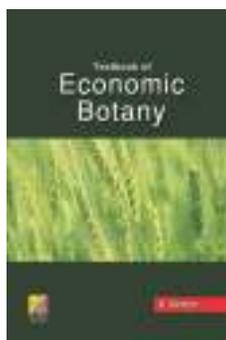


Operation Research in Life Sciences

N. Ravindranathan

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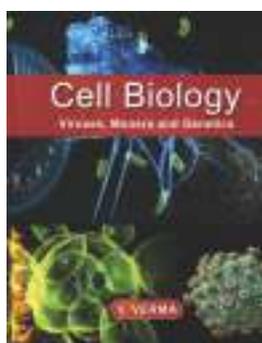
Textbook of Economic Botany

V. Verma

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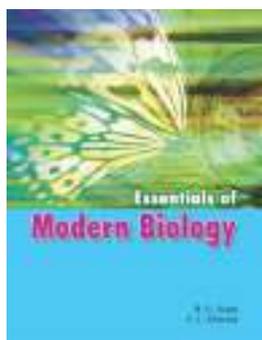


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V. Verma

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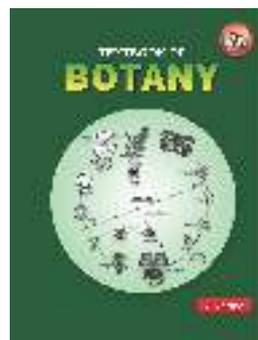


Essentials of Modern Biology

R C Sobti
V.L. Sharma

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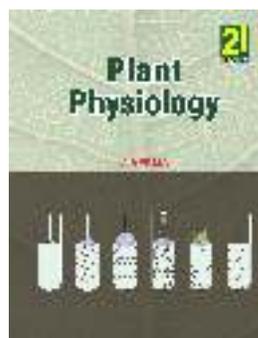


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V. Verma

Contents: Unit I—Plant Kingdom: 1. Biological Classification; 2. Viruses; 3. Monera (Bacteria); 4. Monera (Cyanobacteria); 5. Protista; 6. Algae; 7. Fungi; 8. Lichens; 9. Bryophyta; 10. Pteridophyta; 11. Gymnosperms. Unit II—Angiosperms: 12. The Reproduction of Flowering Plants. Unit III—Morphology: 13. Vegetative Morphology; 14. Reproductive Morphology. Unit IV—Systematics: 15. Systematics. Unit V—Plant Anatomy: 16. Plant Anatomy. Unit VI—Cell Biology: 17. The Cell: The Basic Unit of Life. Unit VII—Genetics: 18. Mendel and His Laws of Inheritance; 19. Structure and Function of Genetic Material; 20. Plant Breeding and Crop Improvement; 21. Genetic Engineering, Cloning and Genomics. Unit VIII—Plant Physiology: 22. Plant Water Relations; 23. Absorption of Water; 24. Ascent of SAP; 25. Transpiration; 26. Mineral Nutrition; 27. Photosynthesis; 28. Translocation of Organic Solutes; 29. Respiration; 30. Nitrogen Metabolism; 31. Growth and Growth Hormones; 32. Physiology of Flowering; 33. Plant Movements. Unit IX—Ecology: 34. Organisms and Environment; 35. Biotic Community and Plant Succession; 36. Ecosystem; 37. Biodiversity and Conservation; 38. Natural Resources, 39. Environmental Pollution. Unit X—Economic Botany: 40. Plants of Economic Importance. Unit XI—Origin of Life: 41. Origin of Life. Unit XII—Organic Evolution: 42. Evidences and Theories of Organic Evolution; 43. Mutation. Appendix. Index.

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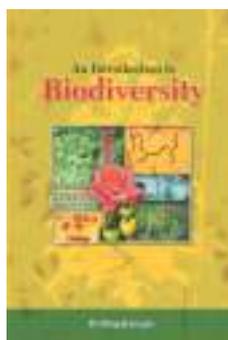


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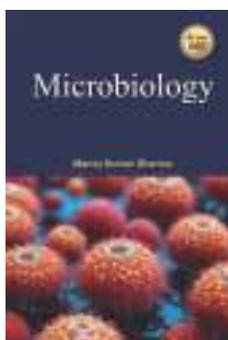


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Prithipalsingh

Contents: Preface, Contents at a Glance 1. Introduction 2. Diversity in Nature 3. Relevance of The Study of Plant Diversity 4. Classification of Biodiversity 5. Viruses and Bacteria 6. Algae 7. Fungi and Lichens 8. Bryophytes 9. Pteridophytes 10. Gymnosperms 11. Angiosperms 12. Suggested Readings

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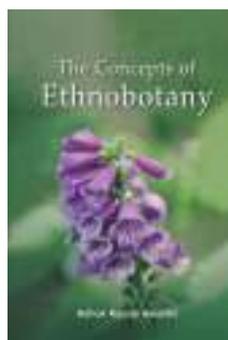


Microbiology As per NEP

Manoj Kumar Sharma

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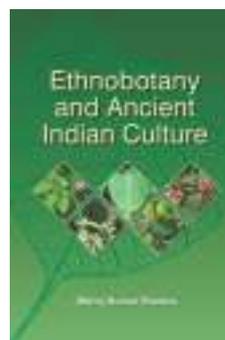


The Concepts of Ethnobotany

Ashok Kumar Awasthi

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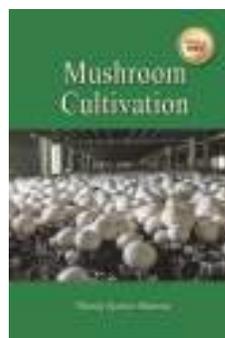


Ethnobotany and Ancient Indian Culture

Manoj Kumar Sharma

Contents: 1. Tree Worship in the Vedic Period 2. Tree Worship in the Vedic Period Concerning Puranas 3. Tree Worship in Buddhism and Jainism 4. Plant and Astrology 5. Sacred Groves 6. Sacred Groves in India 7. Plants in Worship and Myths 8. Plants in the Epics 9. *Welwitschia*: Unique Features and Ecological Significance 10. *Cacti*: Unique Features and Ecological Significance 11. *Orchids*: Unique Features and Ecological Significance 12. *Wolffia*: Unique Features and Ecological Significance 13. *Rafflesia*: The Giant Among Flowers 14. *Sequoia and Its Allied Taxa*: Majestic Giants of the Forest 15. *Victoria amazonica*: The Queen of Water Lilies 16. *Amorphophallus*: Uniquely Fascinating Plants 17. *Adansonia*: The Baobab Genus 18. *Selaginella lepidophylla*: The Resurrection Plant 19. *Desmodium gyrans*: The Telegraph Plant 20. *Mimosa pudica*: The Sensitive Plant 21. *Dionaea*: The Venus Flytrap 22. *Nepenthes*: The Tropical Pitcher Plants 23. *Drosera*: The Sundews 24. *Utricularia*: The Bladderworts 25. *Parasitic Plants*: Nature's Intriguing Freeloaders 26. Medicinal plants 27. Poisonous plants 28. Pollination Mechanism in *Salvia* 29. Pollination Mechanism in *Calotropis*

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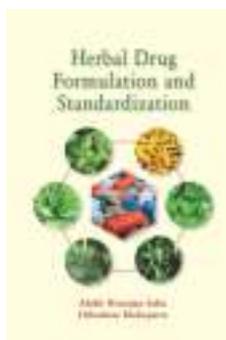


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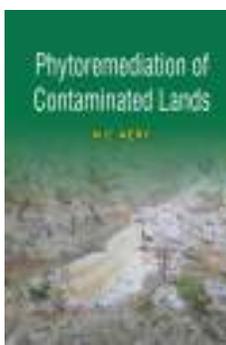


Herbal Drug Formulation and Standardization

Alekh Niranjana Sahu
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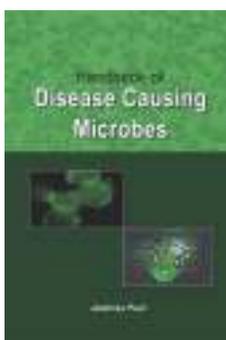


Phytoremediation of Contaminated Lands

N.C. Aery

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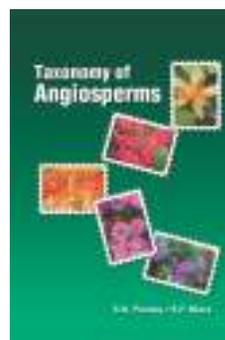


Handbook of Disease Causing Microbes

Jaishree Paul

Contents: 1 Introduction to Infectious Diseases, 2 Skin Infections, 3 Respiratory Tract Infections, 4 Gastrointestinal Tract Infections, 5 Urinary and Genital Tract Infections, 6 Blood and Lymphatic Infections, 7 Nervous System Infections, 8 Nosocomial Infections

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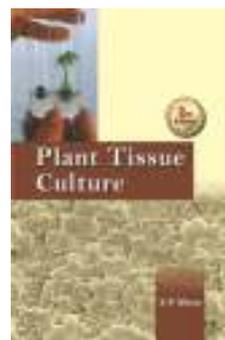


Taxonomy of Angiosperms

S.N. Pandey
S.P. Misra

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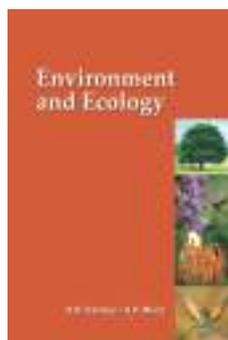


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Microbes and Non-Flowering Plants
Impact and Applications

Mamatha Rao

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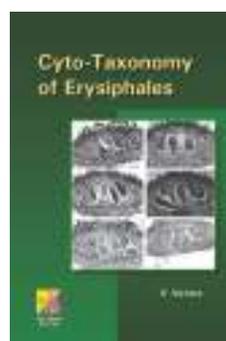


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Awanish Kumar
Sunil Kumar

Contents: 1. Human and Primate Genomes 2. Genes in Human Health and Disease 3. Methods of Gene Function Analysis 4. Shotgun Sequencing and its Application in Various Genome Projects 5. Algorithms for Analysis of DNA and its Complexity 6. Algorithms and Processes for Building a Phylogenetic Tree 7. Virulent Genes in Infectious Disease 8. In Silico and in Vitro Methods for Identification of Antimicrobial Resistance in The Genome 9. Expression and Functional Genomics for Biomarker Identification in Tuberculosis Infections 10. Genomics-Based Diagnostic Methods for the Analysis of COVID-19 11. Analysis of Gene Expression and Regulation 12. Genetics and Genomics of Human Disease Sickle Cell Anemia 13. Human Genebanks and Biobanks 14. Regulation of Gene Expression in a Rare Human Disease Xeroderma Pigmentosum

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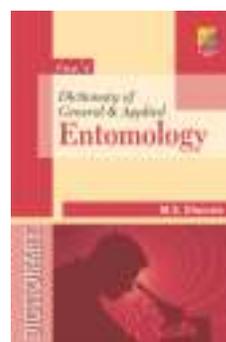


Cyto Taxonomy of Erysiphales

V. Verma

Contents: 1. Introduction and Previous Work 2. Materials and Methods 3. Observations 4. Discussion 5. Summary and Conclusions Literature Cited, Appendix

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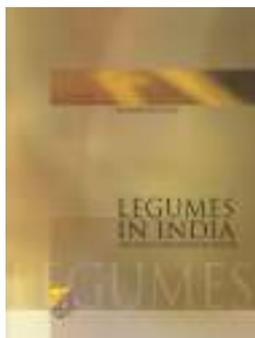


Ane's Dictionary of General & Applied Entomology

M.S. Dhooria

About the Book: "Ane's Dictionary of General and Applied Entomology" has been written keeping in view the fact that different terminology employed in teaching and researchers on different aspects of studies on insects and their management is found in scattered sources.

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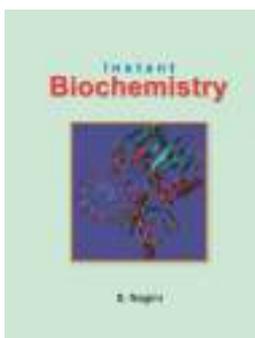


Legumes in India Applications in Food, Medicine and Industry

Mamatha Rao

Contents: PART I : Bioresource Potential of Legumes in India 1. Introduction 2. The Legumes 3. The Economic Potential of Legumes in India 4. Cultivated Legumes 5. Chemistry of the Legumes 6. Nutritional Significance of Edible Legumes 7. Antinutritional Factors in Edible Legumes 8. Toxicants in Edible Legumes 9. Lectins in Legumes 10. Lipids in Indian Legumes 11. Tannins in Legumes 12. Pigments and Dyes in Legumes 13. Terpenoids in Legumes 14. Saponins in Legumes 15. Legumes With Antimicrobial and Pesticidal Activity 16. Systems of Medicine and Health Care 17. Legumes in Ethnomedicine 18. Legumes in Ayurveda 19. Legumes in the Siddha System of Medicine 20. Legumes in the Unani System of Medicine 21. Legumes in Homoeopathy 22. Legume Flavonoids in Medicine 23. Legumes in the Management of Cancer PART II: Information Profiles of Legume Species in India 24. Caesalpinaceae 25. Fabaceae 26. Mimosaceae, Glossary, Bibliography, Index.

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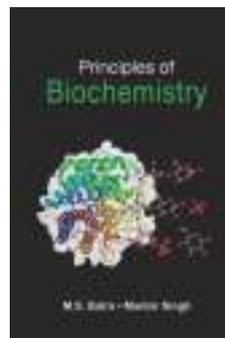


Instant Biochemistry

S. Nagini

Contents: Cell Structure and Biomolecules, 1. The Cell and Subcellular Organelles; 2. Structures and Functions of Biomolecules: Enzymes and Vitamins, 3. Enzymes; 4. Vitamins and Coenzymes: Bioenergetics and Metabolism, 5. Bioenergetics and Biologic Oxidation; 6. Metabolism of Carbohydrates; 7. Metabolism of Lipids; 8. Metabolism of Amino Acids and Nonprotein Nitrogen; 9. Metabolism of Purines and Pyrimidines; 10. Metabolism of Porphyrins and Bile Pigments; 11. Metabolism of Calcium, Phosphate, and Magnesium; 12. Trace Elements: Endocrinology and Nutrition, 13. Hormone Classification and Mechanism of Action; 14. Hormones of The Hypothalamus and the Pituitary; 15. Thyroid Hormones; 16 Adrenal Hormones; 17. Gonadal Hormones; 18. Gastrointestinal and Pancreatic Hormones; 19. Elements of Nutrition: Homeostasis, 20. Sodium, Potassium, and Water Homeostasis; 21. Hydrogen Ion Homeostasis; 22. Blood Glucose Homeostasis, Diabetes and Hypoglycaemia: Function Tests and Plasma Proteins, 23. Liver Function; 24. Kidney Function; 25. Gastric Function; 26. Pancreatic and Intestinal Function; 27. Plasma Proteins and Blood Coagulation: Molecular Biology and Genetic Engineering, 28. Chromatin Organization; 29. DNA Replication and Repair; 30. Transcription and Posttranscriptional Processing; 31. Translation and Regulation of Gene Expression; 32. Recombinant DNA Technology: Analytical Techniques, 33. Analytical Techniques: Special Topics, 34. Basic Principles of Oncology; 35. Genomics, Proteomics, and Bioinformatics; Index

9789394883741 • 438 (Hb) • 2024 • ₹ 1995.00

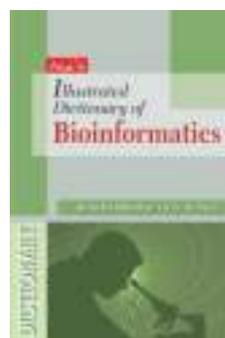


Principles of Biochemistry

M.S. Batra
Manbir Singh

Contents: 1. Introduction to Biochemistry 2. Water and Electrolytic Balance 3. Carbohydrates 4. Proteins 5. Lipids 6. Nucleic Acids 7. Enzymes 8. Vitamins 9. Minerals 10. Bioenergetics 11. Carbohydrate Metabolism 12. Lipid Metabolism 13. Amino Acid Metabolism 14. Tools of Biochemistry

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Ane's Illustrated Dictionary of Bioinformatics

Anusha Bhaskar
V.G. Vidhya

About the Book: The major advances in the field of molecular biology has led to the exploration of biological information and has thus forced the requirement of Bioinformatics to store organize retrieve and use this data. It now entails the creation and advancement of databases, algorithms, computational and statistical techniques, and theory to solve formal and practical problems arising from the management and analysis of biological data. The primary aim of Bioinformatics is to increase our understanding of biological processes. This book is a comprehensive collection of such data, terms and techniques useful to all concerned in the field of Bioinformatics.

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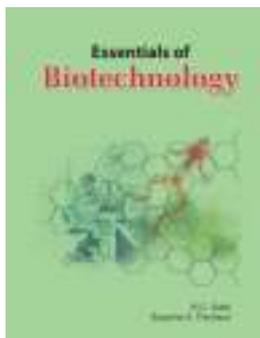


Textbook of Biotechnology

Ravi Toteja

Contents: Preface 1. Introduction to Biotechnology 2. Introduction to Cell 3. Vehicles for Gene Cloning 4. Restriction Enzymes 5. Cloning of DNA 6. Gene Library 7. Protein Production 8. Polymerase Chain Reaction 9. DNA Sequencing and Site Directed Mutagenesis 10. Plant Genetic Engineering 11. Animal Biotechnology: Transgenics 12. Applications of Biotechnology 13. Biotechnology and Intellectual Property Rights, Index

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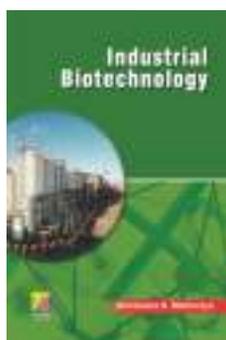


Essentials of Biotechnology

Suparna S. Pachauri
R. C. Sobti

Contents: Preface, 1. Biotechnology, 2. Basic Methodologies & Tools in Biotechnology, 3. Specialized Tools in Biotechnology-I: Cell Culture Technologies, 4. Specialized Techniques in Biotechnology-II: Nucleic Acid Based Technologies, 5. Specialized Tools in Biotechnology-III: Protein Based Technologies, 6. Immunological and Molecular Diagnostic Techniques, 7. Applications of Biotechnology in Health, 8. Biotechnology in Agriculture, 9. Biotechnology in Environment, 10. Biotechnology & Aquaculture, 11. Biotechnology of Food, 12. Biotechnology in Developing Countries (Including Biotechnology in India), 13. The Ethical & Social Implications of Genetic Engineering, 14. Intellectual Property Right and Patenting.

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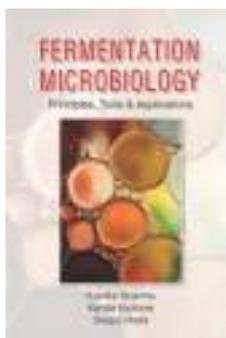


Industrial Biotechnology

Abhilasha S. Mathuriya

Contents: Preface, 1. General Introduction to Biotechnology 2. Microorganisms 3. Fermentation 4. Bath, Fermentation Kinetics 5. Fed Bath Fermentation Kinetics 6. Continuous Fermentation Kinetics 7. Bioreactors 8. Mechanical Design of Bioreactor 9. Immobilized Reactors 10. Mass Transfer Operations in Bioprocesses 11. Oxygen Transfer Operations in Bioprocesses 12. Control Strategies for Bioprocesses 13. Downstream Processing 14. Industrial Applications, Suggested Readings.

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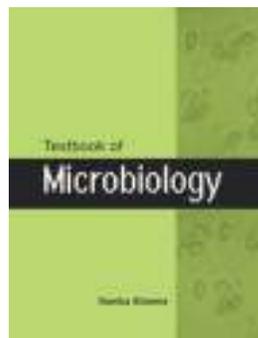


Fermentation Microbiology Principles, Tools & Applications

Kanika Sharma
Kavita Rathore
Deepa Hada

Contents: 1. Fundamentals and Principles of Fermentation Technology 2. Tools of Fermentation Technology 3. Applications of Microbial Fermentation

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Textbook of Microbiology Tools & Techniques 2/Ed.

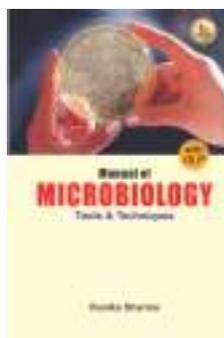
Dr. Kanika Sharma

About the Book: This book has been written with an aim to provide an integrated knowledge about the fundamentals as well as applied aspects of Microbiology. It includes description of type, structure and mode of life of microorganisms, as well as the direct and indirect effects of microbial activities on human affairs. The text has been well defined and segregated into individual units, each dedicated to a specific area of Microbiology.

Unit I introduces the student to the microbial world and fundamental principles of microbiology. Unit II includes the details of forms, characteristics, classification, life cycle and structural organization of prokaryotic microbes. Unit III deals with the details of microbial metabolism processes such as growth, nutrition, energy generation, bio-molecules and their synthesis, as well as microbial genetics and reproduction. Unit IV emphasizes the relationship between microbes and environment. Unit V provides comprehensive information regarding the pathogenic microbes, host parasite interaction and microbial diseases.

The book will be of immense use to the undergraduate and postgraduate students of Microbiology, Biotechnology and Allied Sciences such as Environmental Sciences, Dairy and Food Technology.

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Manual of Microbiology Tools & Techniques 2/Ed.

Dr. Kanika Sharma

Contents: Foreword, Preface, Acknowledgements 1. Introduction To Microbiology 2. Tools Of Microbiology 3. Techniques Of Microbiology 4. Culture Of Microorganisms 5. Isolation, Purification And Identification Of Bacteria 6. Maintenance And Storage Of Bacterial Strains 7. Laboratory Exercises To Study Bacteria 8. Study Of Bacterial Growth 9. Study Of Effect Of Environmental On Bacterial Growth 10. Study Of Control Of Microbial Growth By Antimicrobial Agents 11. Study Of Bacterial Genetics 12. Water Microbiology 13. Soil Microbiology 14. Food Microbiology 15. Milk Microbiology 16. Study Of Viruses 17. Study Of Fungi 18. Study Of Cyanobacteria 19. Study Of Bacterial Diseases In Plants 20. Study Of Medical Microbiology And Immunology 21. Good Laboratory Practices, Annexure, Index.

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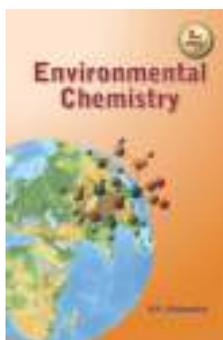


An Introduction to Bioinformatics Algorithms

Neil C Jones
Pavel A Pevzner

Contents: 1. Introduction 2 Algorithms and Complexity 3 Molecular Biology Primer 4 Exhaustive Search 5 Greedy Algorithms 6 Dynamic Programming Algorithms 7 Divide-and-Conquer Algorithms 8 Graph Algorithms 9 Combinatorial Pattern Matching 10 Clustering and Trees 11 Hidden Markov Models 12 Randomized Algorithms Using Bioinformatics Tool Bibliography, Index.

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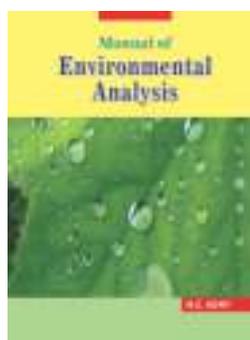
Environmental Chemistry

2/Ed

V.K. Ahluwalia

Contents: 1. Environment 2. Hydrosphere 3. Soils 4. Atmosphere 5. Industrial Pollution 6. Noise Pollution 7. Environmental Toxicology 8. Environmental Pollution and Health 9. Energy and Environment 10. Experiments in Environmental Chemistry

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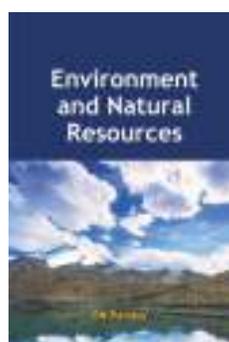


Manual of Environmental Analysis

N.C. Aery

Contents: 1. Physical and Chemical Examination of Water and Waste Water 2. Biological Examination of Waste Water 3. Microbiological Examination of Water 4. Physico Chemical Examination of Soil 5. Microbiological Examination of Soil 6. Environmental Radioactivity Monitoring 7. Bioassay 8. Analysis of Plant Material 9. Analysis of Air 10. Measurement of Noise 11. Effect of Pollutants on Plants 12. Biomonitoring 13. Vegetation Analysis 14. Environmental Impact Assessment (EIA) 15. Environmental Auditing 16. Statistics in Environmental Science, Bibliography, Annexures, Index

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Environment and Natural Resources

S.N. Pandey

Contents: 1. Definition, Scope, Importance and Need for Public Awareness 2. Natural Resources and Associated Problems 3. Forest Resources 4. Water Resources 5. Mineral Resources 6. Food Resources 7. Energy Resources 8. Land Resources 9. Role of an Individual in Conservation of Natural Resources 10. Equitable Use of Resources for Sustainable Life Styles

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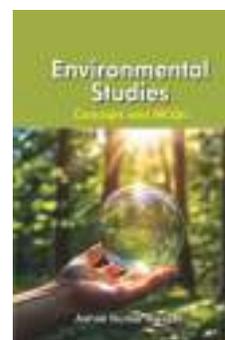
Urban Environment and Spatial Science

Editors:

Mohd Akhter Ali
Kabir Mohan Sethy
Muzafar Wani
M. Kamraju

Contents: 1. Geospatial Technology and Applications in Urban and Regional Planning - Dr. Y.V.N. Krishna Murthy 2. An Overview of Urban Development - M.Kamraju 3. Urbanization-The Future of Cities: An unrealistic growth causing Societal Pandemic - Kanagiri SN Prasad and Dr. Mohd Akhter Ali 4. Analysis of Urban Sprawl and Water Dynamics of Kalinganagar Industrial Region of Jajpur District of ODISHA - S.Panigrahi, S. Giri. and K.M.Sethy 5. Spatiotemporal analysis of Dog Bites in Srinagar City - Muzafar Ahmad Wani, Insha Mohideen, Shamim ahmad shah and Tanweer Ahmad Malik 6. Geoinformatics Aided Urban Land Bank Identification and Mapping - A Case Study of Berhampur Municipal Corporation of Ganjam District, Odisha State, India - Binita Tripathy, K.M.Sethy & PMishra 7. A Qualitative Study on Role of Satellite Cities in India - P. Manisha, Sanja Devi, M.Kamraju 8. Coastal Cities and Erosion Issues: A Study Along - The Coast of Puri Town, Odisha, India Using Remote Sensing & Gis - Ms. Prachi Prava Panda, Prof. Manas Ranjan Das and Dr. Nihar Ranjan Das 9. Impact Assessment of Anthropogenic Stress on Green Spaces of Srinagar City, Jammu & Kashmir - Saleha Jamal, Wani Suhail Ahmad, Md Ashif Ali, Umar Amin Reshi and Sarfaraz Asgher 10. Air and Noise Pollution Status - Syeda Azeem Unnisa, Vattikoti Praveen, Akhtar Rasool & Bharath Raj 11. Climate Change and its Impact on Water-Comparative Study - Ms. Shakuntala Pratihary & Prof Kabir Mohan Sethy 12. Transformation of Transboundary River Padma (Ganges) - Shaik Riyaz Basha, Dr.B.Laxamiah 13. Developmental Planning for the Slums in Srinagar City - Sameer Fayaz*, G. M. Rather, M. Sultan Bhat 14. Informal Settlements and its Challenges in Kabul City-Afghanistan - Fidel Rahmati and Prof. AV Shashikala 15. Trace Metals in Fruits - Syeda Azeem Unnisa, B. Kiran and Aaron Jasper Molgeri 16. Geopolitical Issues of Kabul River A Case Study of Af-Pak - Fidel Rahmati, Prof. AV Shashikala 17. Urban Expansion in the Northern Territories of Himalayan Region- India - Manzoor A.Wani, Bashir A. Lone, Ishtiaq A. Mayer 18. A Study on Educational Status of Muslim Community in Telangana Region - Dr. Mohd Hussamuddin

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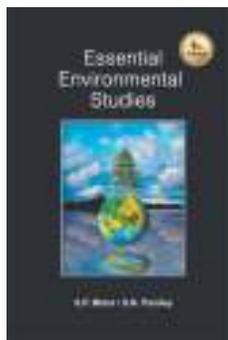
Environmental Studies

Concepts and MCQs

Ashok Kumar Awasthi

Contents: Unit-1 1. Definition, Scope and Importance 2. Need for Public Awareness Unit-2 1. Natural Resources 2. Forest Resources 3. Water Resources 4. Mineral Resources 5. Food Resources 6. Land Resource 7. Energy Resources Unit-3 1. Ecosystem Unit-4 1. Biodiversity Conservation Unit-5 1. Environmental Pollution Unit-6 1. Social Issues and the Environment Unit-7 1. Human Population and the Environment

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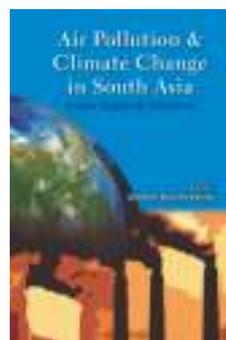
Essential Environmental Studies

4/Ed

S. P. Misra
S. N. Pandey

Contents: UNIT I Multidisciplinary Nature of Environmental Studies UNIT II Natural Resources: Renewable and Non-Renewable Resources; UNIT III Ecosystems; UNIT IV Biodiversity and its Conservation; Unit V Environmental Pollution; UNIT VI Social Issues and the Environment; UNIT VII Human Population and the Environment; UNIT VIII Field Work;

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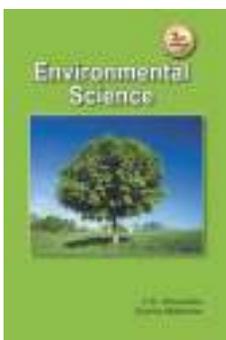
Air Pollution & Climate Change in South Asia

Issue, Impact & Initiatives

Editor:
Umesh Kulshrestha

Contents: 1. Introduction 2. Air Pollution Sources 3. Air Pollution in Megacities 4. Air Pollution from Fireworks and its Impact on Air Quality and Health 5. Indoor Air Pollution During Traditional Cooking and its Socio-Economic Impacts on Rural Population in North India 6. Atmospheric Deposition and Ecosystem Sensitivity 7. Estimation of Emission from Crop Residue Burning; Study Over North-West India During Harvesting Season 8. Impact of Air Pollution on Plants 9. Drivers of Climate Change 10. Regional Climate Resilience 11. Climate Change and Demographic Shift 12. Human Induced Calamities 13. Climate Change Mitigation 14. Climate Change: Managing Impacts Through Policies 15. Summary

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Environmental Science

2/Ed

V.K. Ahluwalia
Sunita Malhotra

Contents: 1. Energy and Environment 2. Environment 3. Atmosphere 4. Air Pollution 5. Water 6. Water Pollution 7. Marine Pollution 8. Soil 9. Soil Pollution 10. Hazardous Waste and its Management 11. Noise Pollution 12. Environment and Health 13. Climate Change 14. Biodiversity 15. Environmental Management 16. Some Case Studies 17. Towards Cleaner Future, Glossary, Index.

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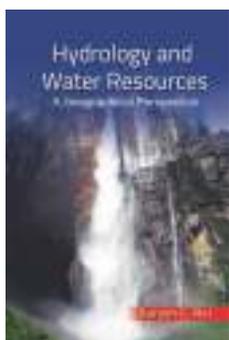
Sustainable Development

Environment, Energy and Water Resources

M.K. Ghosh Roy

Contents: Part I: Overview of Sustainable Development, 1. Global Sustainability-An Overview 2. Multi-Sectoral Resources Review Towards Sustainability, 3. Technology Solution for Global Sustainability, 4. Economic & Governance of Sustainable Development, Part II: Challenges of Environment, 5. General Atmospheric Pollution, 6. Automobile Emissions, 7. Depletion of Ozone Layer, 8. Problem of Acid Rain, 9. Global Warming & Climatic Changes, 10. Carbon Emission Scenario, 11. Climate Change & Carbon Trading, Part III: Challenges of Energy, 12. Global Energy Challenges, 13. Nuclear Energy, 14. Biomass Energy, 15. Solar Energy-A Promising Alternative Power Source, 16. Wind Energy & Power, 17. Fuel Cells & Hydrogen Fuel Technology, 18. Hydro-Energy, 19. Other Energy Challenges, Part IV: Challenges of Water Resources, 20. Overview of Global Water Resources, 21. Challenges of India's Water Resource, 22. Indian Water Resources II, 23. Urban Water Supply-A Dual Water System. References. Index.

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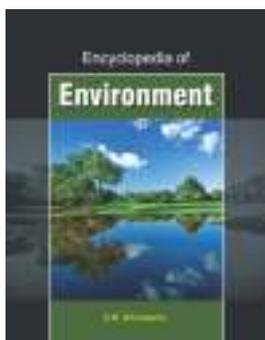
Hydrology and Water Resources

A Geographical Perspective

Suresh C. Rai

Contents: INTRODUCTION, Part-1: Hydrologic Cycle and Water Balance 1. Hydrologic Cycle 2. Water Balance Part-2: River Basin and Problem of Regional Hydrology 3. River Basins 4. Floods 5. Drought Part-3: Groundwater Assessment and Development 6. Groundwater Part-4: Water Resource Problem 7. Water Demand and Supply 8. Water Pollution 9. Interstate Water Disputes 10. Water Rights and Water Markets 11. Governance and Finance Part-5: Water Resource Management 12. Watershed Management 13. Water Policy, References, Appendix.

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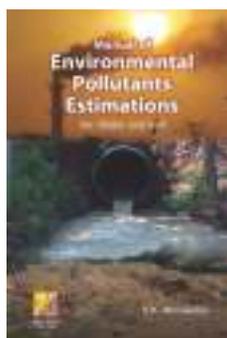


Encyclopedia of Environment

V.K. Ahluwalia

About the Book: The main thrust of this Encyclopedia is on the understanding of environmental processes and pollution. It includes pollution of all environmental segments (atmosphere, hydrosphere and lithosphere) and the effects of various pollutants on human health. In addition to marine pollution, noise pollution, radioactive pollution, vehicular pollution, industrial pollution, thermal pollution, the effects of various pollutants on human health are included. Other topics covered are toxicology, toxic metals environmental carcinogens, natural resources, ecosystems, biodiversity, urbanization, ecological succession, wetlands, global warming, greenhouse effect, ozone hole, acid rain, environmental degradation, environmental episodes, nuclear episodes, natural disasters, environmental movements, environment and energy, environmental biotechnology, organic farming, biofertilizers, biopesticides, environmental laws, international agreements and green chemistry, which is useful for checking industrial pollution. Twelve appendices dealing with various standards are also given.

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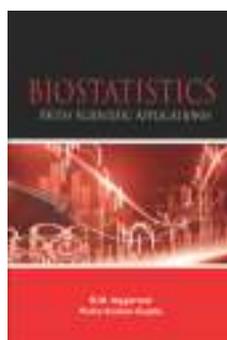


Manual of Environmental Pollutants Estimations Air, Water and Soil

V.K. Ahluwalia

Contents: 1. Air Analysis 2. Water Analysis 3. Soil Analysis, Appendices

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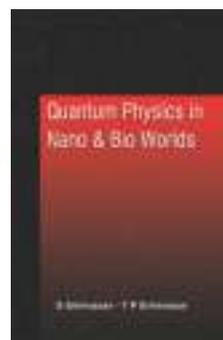


Biostatistics (With Scientific Applications)

B.M. Aggarwal
Pulin Kumar Gupta

Contents: 1. Introduction and Basic Concepts 2. Statistical Averages and Dispersion 3. Probability and Mathematical Expectation 4. Probability Distributions 5. Correlation 6. Regression Analysis 7. Sampling Theory and Testing of Hypothesis 8. Vital Statistics 9. Survival Analysis

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Quantum Physics in Nano and Bio Worlds

S. Srinivasan
T.P. Srinivasan

Contents: 1 Evolution of Quantum Physics 2 Development of Solid State Electronics 3 Physics of the Nano State 4 Nano Applications and Devices 5 A Brief Introduction to Biological Molecules 6 Quantum Physics in Biology, Appendix, Name Index, Subject Index

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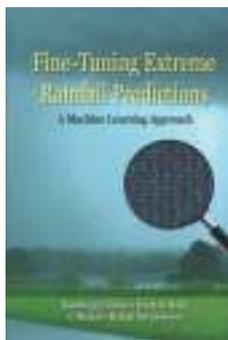


Geo-Environment and Sustainable Development (Some Case Studies)

B.L. Kaul

Contents: Preface, Acknowledgements, Introduction, Section I : Geoenvironment and Sustainable Development 1. Delhi Region 2. Temporal Migration of Yamuna and Seisotectonics 3. Resources (Non-renewable) 4. Existing Landuse and Development 5. Land Use Mismatch and Problems 6. Geoenvironment in Solution to Present Day Problems 7. Ghaziabad-Noida Area 8. Resource 9. Geoenvironment in Solution to Development and Urbanisation 10. Hazards 11. Socio-economic Development and Green House Impact 12. Bulandshahar-Khurja Area 13. Geoenvironmental Evaluation 14. Geoenvironmental Hazards 15. Land Suitability/Capability 16. Meerut Area 17. Geoenvironment and Development 18. Hazards and Possible Mitigation 19. Geoenvironment in Solution to Urbano-Industrial Problems Delhi-NCR (UP) Region-(A Summary) 20. Indira Gandhi Canal Area, Hanumangarh District, Rajasthan 21. Resources 22. Geoenvironmental Evaluation and Hazards Section II: Geoenvironment and Tourism Parts of Baramula District (J & K) 23. Gulmarg Tourist Area, Baramula District (Kashmir) 24. Wular Lake Area Baramula District, Kashmir Section III: Geoenvironment and River Ecology 25. pH Sensitive Lithologies and River Ecology; Parts of Baramula District (J&K) Case Studies, References

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Fine-Tuning Extreme Rainfall Predictions

A Machine Learning Approach

Sandeep Chinta
Harish Baki
C. Balaji
Balaji Srinivasan

Contents: 1 Introduction: Extreme Rainfall Events in India 2 Review of Literature: Prediction of Extreme Rainfall Events in India 3 A Brief Overview of the Weather Research and Forecasting (WRF) Model 4 An Overview of Events Simulated, Methodology, and Evaluation Metrics 5 Identification of Sensitive Model Parameters for Heavy Rainfall Events During Indian Monsoon 6 Calibration of Sensitive Model Parameters for Heavy Rainfall Events During Indian Monsoon 7 Impact of Data Assimilation on Parameter-Calibrated Model for Heavy Rainfall Events During Indian Monsoon 8 Identification of Sensitive Parameters for Tropical Cyclones 9 Calibration of the Sensitive Parameters for Tropical Cyclones 10 Impact of Data Assimilation on a Parameter-Calibrated Model for Tropical Cyclones 11 Conclusions and Scope for Future Work, Appendices, Index

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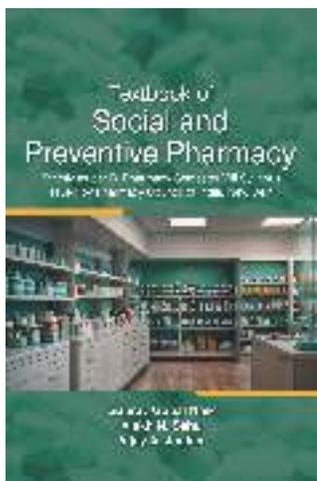


Geo-Environment of Gujarat

Bushan Kaul

Contents: Preface, Part—I, 1. Introduction 2. Natural Resources 3. Groundwater 4. Mining & Other Pollutions 5. Earthquakes & Neotectonics 6. Dinosaurs Part—II: District Appraisal 7. Mehsana District 8. Ahmedabad District 9. Jamnagar District Part—III: Site Specific/Problem Specific 10. Lignite Mining in Rajpardi-Nani Naroli Mines in Bharuch & Surat Districts 11. Lignite-Mining in Panandro-Matanomad area Kachchh District 12. Natural Hazard — Bhuj Earthquake, References, International Stratigraphic Chart, Geo Environment Scheme, EIA Scheme.

9789385462450 • 162 (Hb) • 2023 • ₹ 995.00



Textbook of Social and Preventive Pharmacy

Strictly as per B. Pharmacy Semester VIII Syllabus
issued by Pharmacy Council of India, New Delhi

Gaurav Gopal Naik
Alakh N. Sahu
Vijay A. Jagtap

About the Book

"Textbook of Social and Preventive Pharmacy" aims to provide a comprehensive understanding of key health issues and challenges faced globally and within national contexts. Crucially, the textbook explores the evolving roles and responsibilities of pharmacists within these frameworks, emphasizing their contributions to public health through education, advocacy, and community engagement. This book delves into various national health programs and initiatives aimed at tackling these issues, offering students insights into their design, implementation, and impact. Through case studies, practical examples, and discussions on ethical considerations, this textbook equips students with the knowledge and skills necessary to navigate and contribute effectively to social and preventive pharmacy practices upon graduation.

Contents

1. Health Education, Disease and Sociology
2. Preventive Medicine
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4. National Health Programme
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6. Additional Reading

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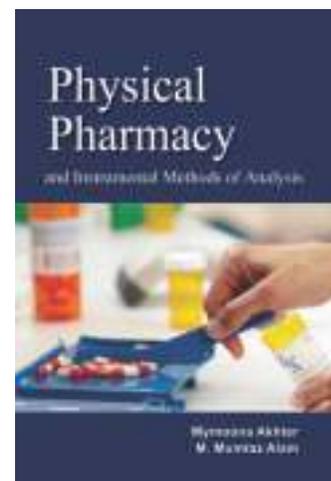
and Instrumental Methods of Analysis

Mymoona Akhter
M. Mumtax Alam

Contents

1. Introduction and Physical Properties of Drug Molecules
2. Solution
3. Colligative Properties
4. The Distribution Law
5. Ionization and Ionic Equilibria
6. Chemical Kinetics
7. Catalysis
8. Electrochemistry
9. Potentiometry
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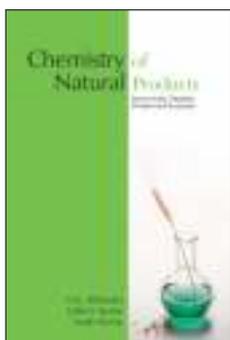
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V K Ahluwalia
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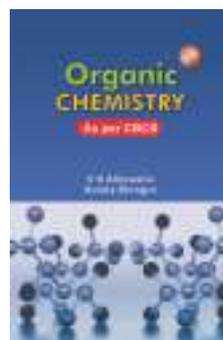


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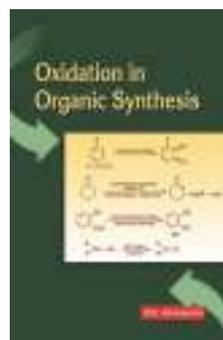
Organic Chemistry

As per CBCS
Vol 1

V.K. Ahluwalia
Sunita Dhingra

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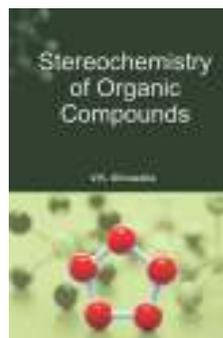


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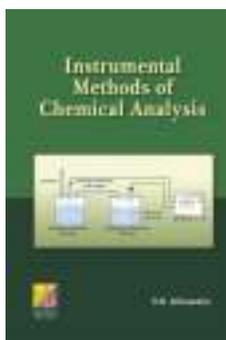


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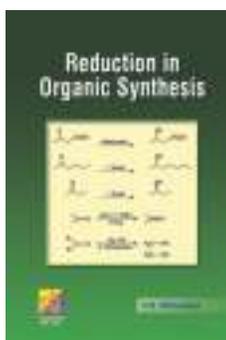


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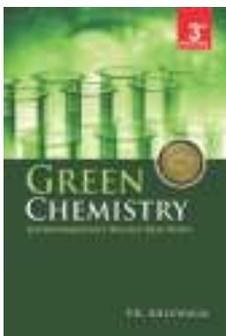


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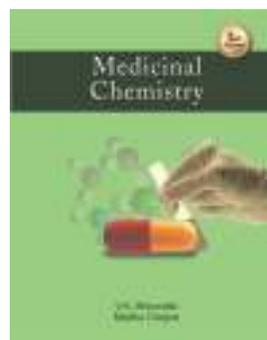


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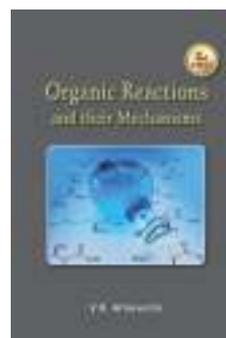
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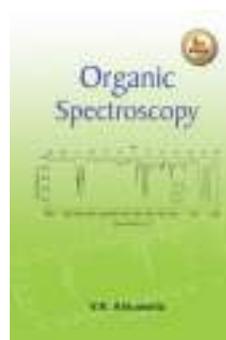
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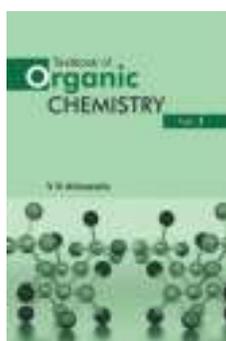
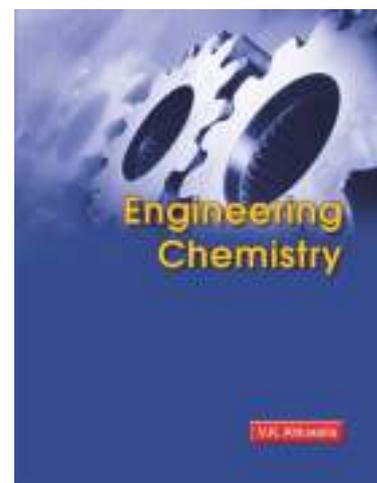
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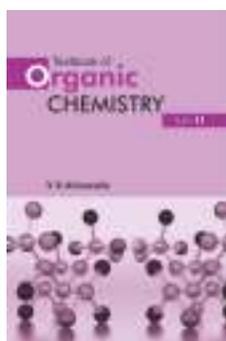


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V.K. Ahluwalia

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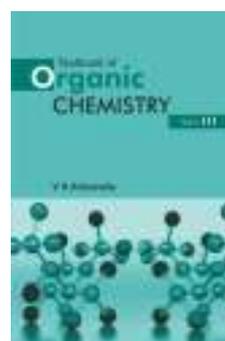


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V.K. Ahluwalia

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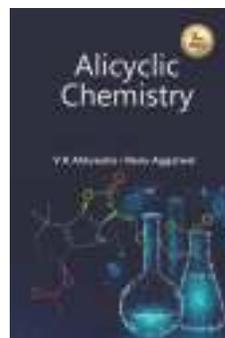
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V.K. Ahluwalia

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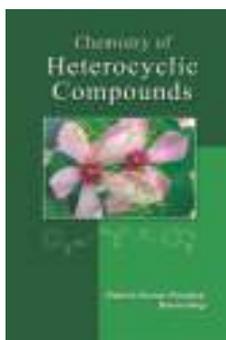


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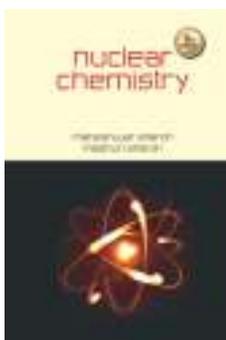


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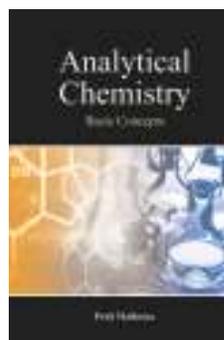
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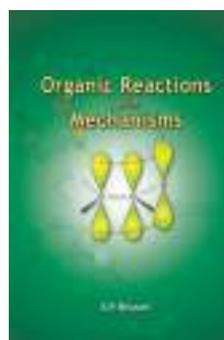


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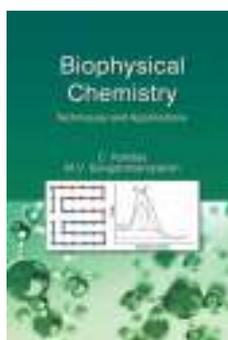


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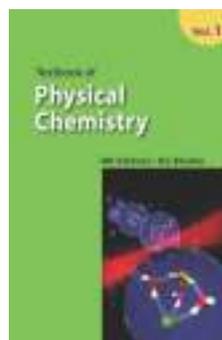
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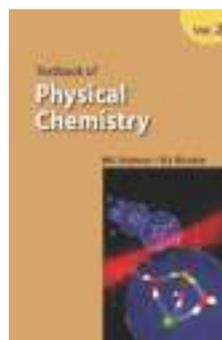


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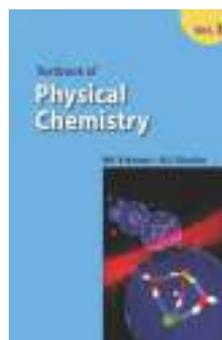


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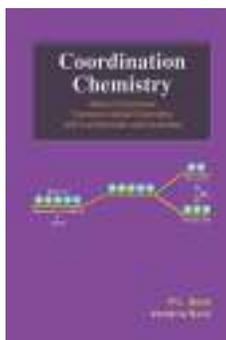


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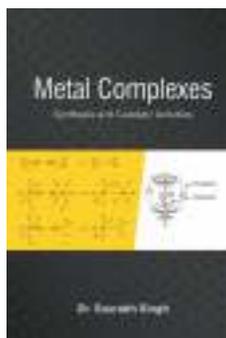
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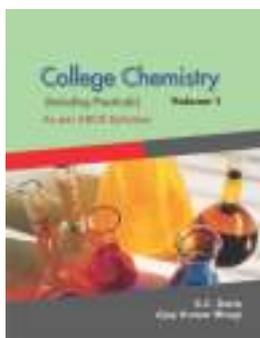
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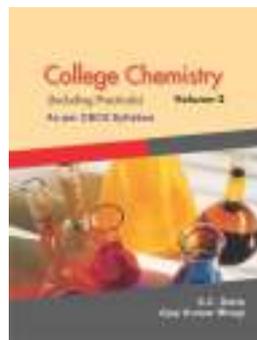
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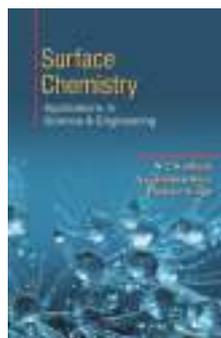
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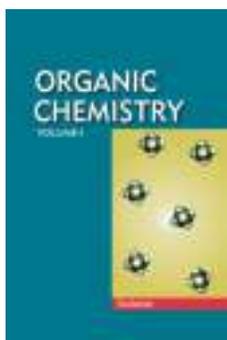
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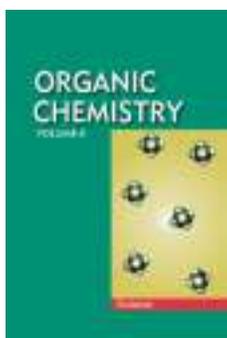


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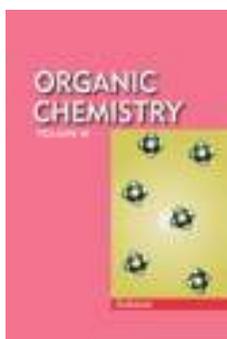


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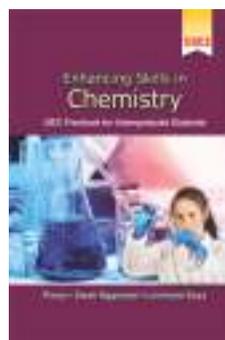


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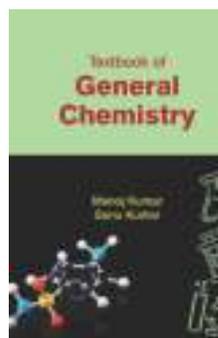


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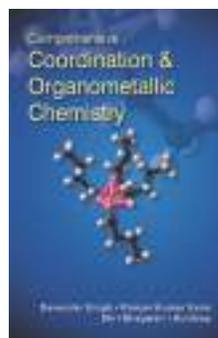


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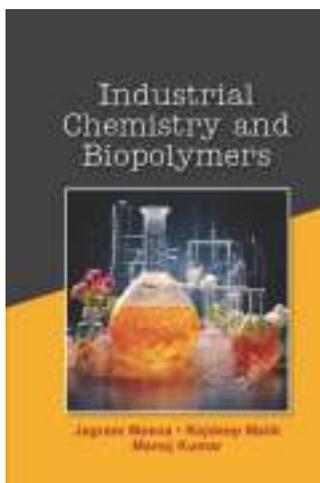
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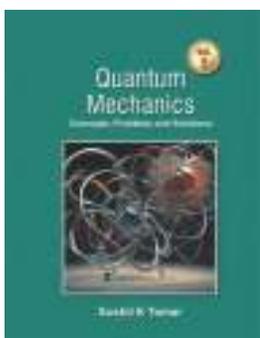
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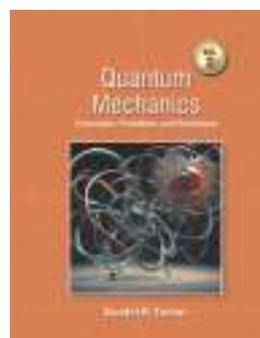
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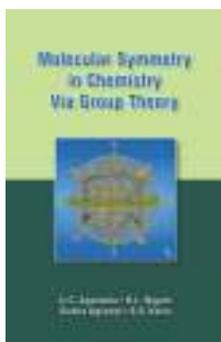
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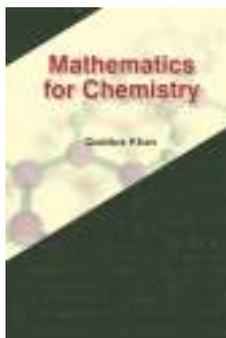


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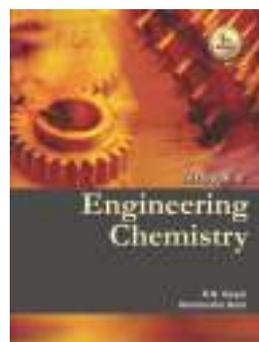


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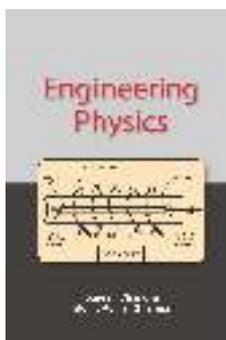
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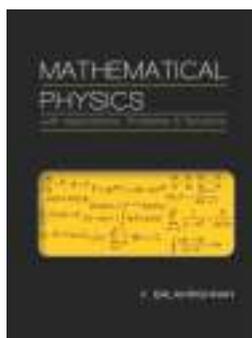


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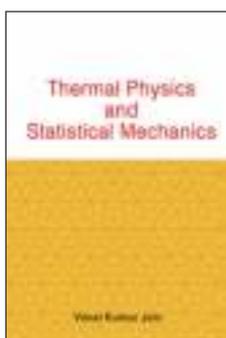


Mathematical Physics with Applications, Problems & Solutions

V. Balakrishnan

Contents: 1 Warming up: Functions of a real variable 2 Gaussian integrals, Stirling's formula, & some integrals 3 Some more functions 4 Generalized functions 5 Vectors and tensors 6 Vector calculus 7 A bit of fluid dynamics 8 Some more vector calculus 9 A bit of electromagnetism and special relativity 10 Linear vector spaces 11 A look at matrices 12 More about matrices 13 Infinite-dimensional vector spaces 14 Linear operators on a vector space 15 Operator algebras and identities 16 Orthogonal polynomials 17 Fourier series 18 Fourier integrals 19 Discrete probability distributions 20 Continuous probability distributions 21 Stochastic processes 22 Analytic functions of a complex variable 23 More on analytic functions 24 Linear response and analyticity 25 Analytic continuation and the gamma function 26 Multivalued functions and integral representations 27 Möbius transformations 28 Laplace transforms 29 Green function for the Laplacian operator 30 The diffusion equation 31 The wave equation 32 Integral equations

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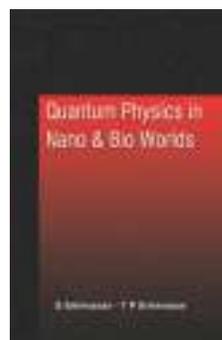


Thermal Physics and Statistical Mechanics

Vimal Kumar Jain

Contents: 1. Basic Concepts and Zeroth Law of Thermodynamics 2. First Law of Thermodynamics 3. Second Law of Thermodynamics 4. Thermodynamic Potentials 5. Kinetic Theory of Gases 6. Theory of Radiation 6. Statistical Mechanics

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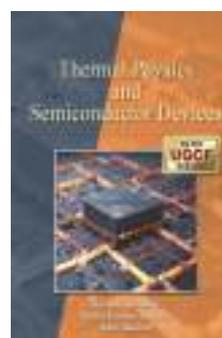


Quantum Physics in Nano and Bio Worlds

S. Srinivasan
T.P. Srinivasan

Contents: 1 Evolution of Quantum Physics 2 Development of Solid State Electronics 3 Physics of the Nano State 4 Nano Applications and Devices 5 A Brief Introduction to Biological Molecules 6 Quantum Physics in Biology, Appendix, Name Index, Subject Index

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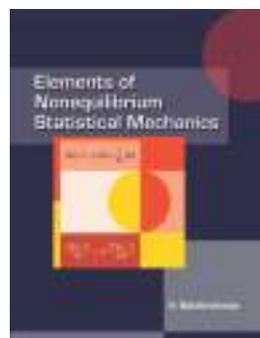
Thermal Physics and Semiconductor Devices

As per UGCF NEP 2020

Suresh Chandra
Mohit Kumar Sharma
Amit Kumar

Contents: 1. Zeroth & First Laws of Thermodynamics 2. Second & Third Law of Thermodynamics 3. Kinetic Theory of Gases 4. Theory of Radiation 5. DC & AC Circuits 6. Semiconductors & Diodes 7. Transistors 8. Electrical/Electronic Instrumentation Bibliography, Index

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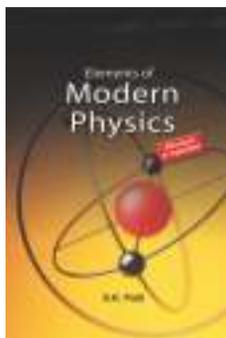


Elements of Nonequilibrium Statistical Mechanics

V. Balakrishnan

Contents: Prologue 1. Introduction 2. The Langevin equation 3. The fluctuation-dissipation relation 4. Autocorrelation of the velocity 5. Markov processes 6. The Fokker-Planck equation 7. The diffusion equation 8. Diffusion in a finite region 9. Brownian motion 10. First-passage time 11. The displacement 12. Phase space Fokker-Planck equation 13. Diffusion in a potential 14. Diffusion in a magnetic field 15. Kubo-Green formulas 16. Dynamic mobility 17. The generalized Langevin equation, Epilogue, Appendixes, Suggested Reading.

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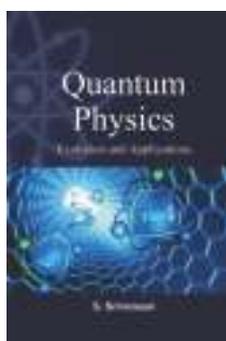
Elements of Modern Physics

Revised & Updated

S.H. Patil

Contents: 1. Special Theory of Relativity 2. Introduction to Quantum Ideas 3. Elements of Quantum Theory 4. The One-Electron Atom 5. Atoms and Molecules 6. Interaction with External Fields 7. Quantum Statistics 8. Solid State Physics 9. The Nucleus 10. Elementary Particles 11. General Relativity and Cosmology

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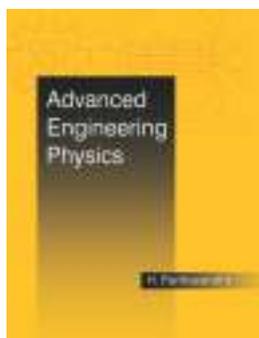
Quantum Physics

Evolution and Applications

S. Srinivasan

Contents: 1. From Newton to Planck, 2. Quantum Theory of Matter, 3. Einstein's Theory of Relativity, 4. Quantum Concept, 5. Multi Atom Systems, 6. Properties of Solids, 7. Scientific Research in India

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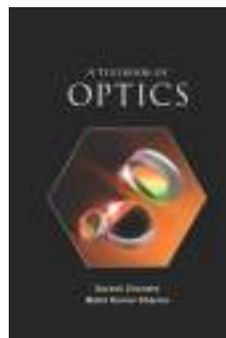


Advanced Engineering Physics

Harish Parthasarthy

Contents: Mechanics • Fluid Dynamics • Electro Magnetism • Relativity • Quantum mechanics • Circuit theory • Optics • Solid State Physics • Digital Signal Processing • Probability • Statistical Physics • Bibliography • Index.

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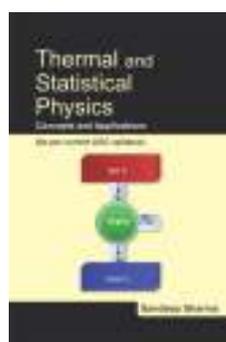


A Textbook of Optics

Suresh Chandra
Mohit Kumar Sharma

Contents: 1. Reflection 2. Refraction 3. Cardinal Points 4. Interference 5. Fresnel Diffraction 6. Fraunhofer Diffraction 7. Polarization 8. Lasers and Holography 9. Fiber Optics, Bibliography, Index

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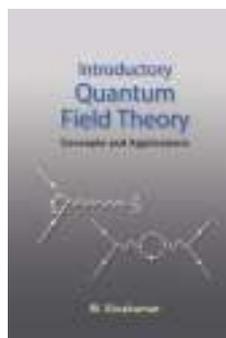
Thermal and Statistical Physics

Concepts and Applications
(As per current UGC syllabus)

Sandeep Sharma

Contents: 1 Introduction 2 The laws of thermodynamics 3 Second law of thermodynamics 4 Entropy 5 Thermodynamic potentials and Maxwell relations 6 Kinetic theory of gases 7 Real gases 8 Applications to some irreversible changes, cooling of real gases 9 Theory of radiation 10 Elementary statistical mechanics, Solved problems, Multiple Choice Questions, Exercises

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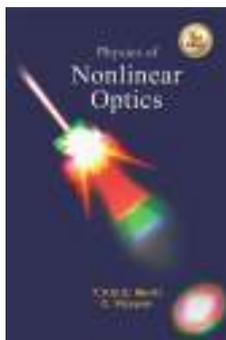
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Concepts and Applications

M. Sivakumar

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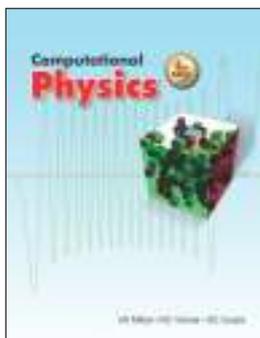


Physics of
Nonlinear Optics
2/Ed

Y.V.G.S. Murti
C. Vijayan

Contents: 1. From Optics to Photonics 2. A Phenomenological View of Nonlinear Optics 3. Symmetry and Susceptibility Tensors 4. Calculation of Non-linear Susceptibilities 5. Nonlinear Wave Mixing Processes 6. Optical Phase Conjugation and Bistability 7. Self Focusing, Phase Modulation and Pulse Shaping 8. Mechanisms and Materials 9. Basics of Multiphoton Microscopy, Bibliography, References

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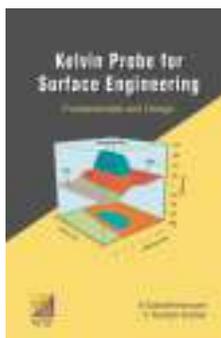


**Computational
Physics**
2/Ed

VK Mittal
RC Verma
SC Gupta

Contents: 1. Fundamentals of Problem Solving 2. Fortran 77: Essential Features 3. Fortran 77: Advanced Features 4. Computer Problems-I 5. Computer Problems-II 6. Computer Problems-III, Appendix 1 : Hardware, Appendix 2 : Software, Appendix 3 : Handling of Fortran Files, Appendix 4 : Program Errors

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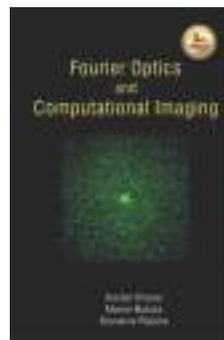


**Kelvin Probe for
Surface Engineering**
Fundamentals and Design

A. Subramanyam
C. Suresh Kumar

Contents: Introduction to Surfaces and Interfaces • The Thermodynamics of Surfaces and Definition of Work Function and Measurement • Design of the Kelvin Probe and the Methods of Measurement of Contact Potential Difference (CPD) • Photo-Emission Yield Spectroscopy (PEYS) • Surface Photovoltage (SPV) Spectroscopy of Semiconductor Surfaces • APPENDICES, Appendix I, Appendix II, Appendix III, Appendix IV • References, Index

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Computational Imaging**
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Kedar Khare
Mansi Butola
Sunaina Rajora

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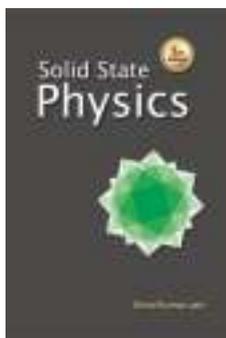
**Cold Plasma in
Nano-Matter Synthesis**

Basic Principles & Practices
(with an Introduction to
Nano thermodynamics)

A. Subrahmanyam

Contents: 1 Introduction to Nano Matter and Cold Plasma 2 Plasma Overview and the Basics of Cold Plasma 3 Cold Plasma Diagnostics: Basics and Working Principles 4 Nano Matter: Synthesis Techniques - An Overview 5 Cold Plasma-Assisted Nano-matter Synthesis 6 Nucleation, Thermodynamics, and Growth Kinetics of 2D Materials 7 Nucleation of Nano-Matter and Nano-thermodynamics 8 A Brief History and Chronology of Plasma Appendix 1 Saha ionization equation Appendix 2 Plasma Chemistry Appendix 3 Self - Assembled Monolayers (SAM) Appendix 4 Useful Constants and Formulae

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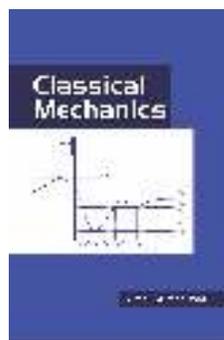


**Solid State
Physics**
2/Ed

Vimal Kumar Jain

Contents: 1. Crystal Structure 2. Chemical Bonding in Solids 3. Defects in Solids 4. Elements of Quantum Mechanics 5. X-Ray Diffraction 6. Lattice Vibrations 7. Thermal Properties of Solids 8. Free Electron Theory of Metal 9. Band Theory 10. Semiconductors 11. Dielectric Properties of Solids 12. Magnetic Properties of Matter 13. Magnetic Resonance 14. Superconductivity 15. Nanomaterials 16. Optical Properties 17. Semiconductor Devices, Bibliography, Index

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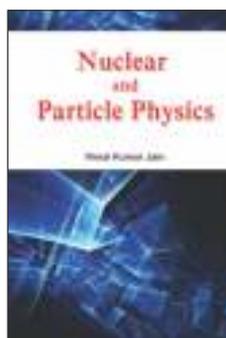


**Classical
Mechanics**

Vimal Kumar Jain

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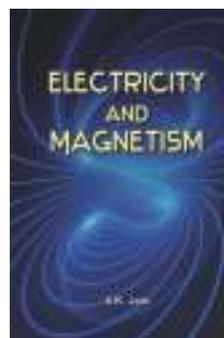


**Nuclear
and
Particle Physics**

Vimal Kumar Jain

Contents: Preface, Introduction, Elements of Quantum Mechanics 3. Basic Nuclear Properties 4. Liquid Drop Model and Semi-Empirical Mass Formula 5. Nuclear Models 6. Radioactivity 7. Alpha Decay 8. Beta Decay 9. Gamma Decay 10. Two Nucleon Problem and Nuclear Force 11. Nuclear Reactions 12. Fission and Fusion 13. Nuclear Detectors 14. Elementary Particles 15. Quark Model Solved Examples Objective Type Questions, Exercises, Bibliography, Index

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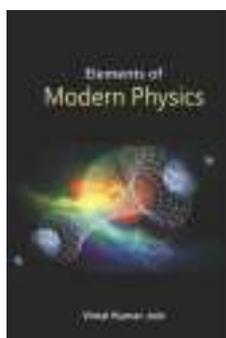


**Electricity and
Magnetism**

Vimal Kumar Jain

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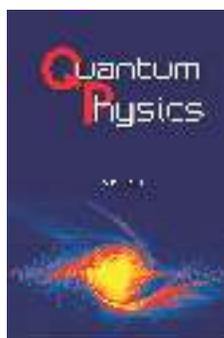


**Elements of
Modern Physics**

Vimal Kumar Jain

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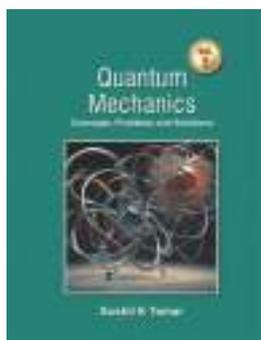


**Quantum
Physics**

V.K. Jain

Contents: 1. Experimental Basis of Quantum Physics 2. Introduction to Quantum Physics 3. Mathematical Formulism 4. Solution of Schrödinger Equation in One Dimension 5. Schrödinger Equation in Three Dimensions 6. Approximation Methods 7. Scattering Theory 8. The Multiparticle Schrödinger Equation, Bibliography.

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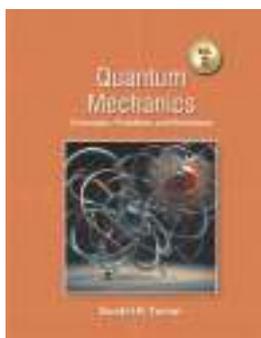
Quantum Mechanics

Concepts, Problems and Solutions
Vol. 1

Sushil K Tomar

Contents: VOL-1 : I Fundamental of Quantum Mechanicsx 1 The Classical State 2 Origins of Quantum Mechanics 3 The Wave-like Behaviour of Electrons 4 The Quantum State 5 Dynamics of the Quantum State 6 Energy and Uncertainty 7 Operators and Observations II Exact Solution 8 Rectangular Potentials 9 The Harmonic Oscillator 10 Symmetry and Degeneracy 11 Angular Momentum 12 3-Dimensional Problems VOL-2 : III Election Spin 13 Election Spin 14 The Addition of Angular Momentum 15 Identical Particles IV Approximate Solution 17 Time-Dependent Perturbation Theory18 Semi-Classical Radiation Theory 19 Variational Principle and JWKB Approximation 20 Scattering Appendix A Appendix B Appendix C

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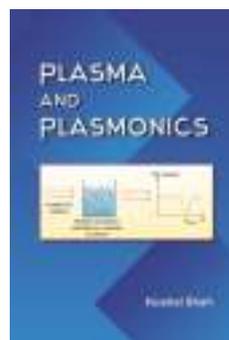
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Concepts, Problems and Solutions
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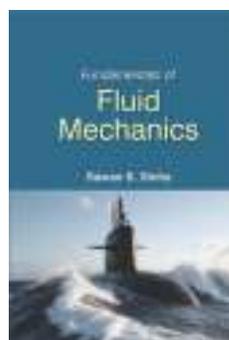


Plasma and Plasmonics

Kushal Shah

Contents: Preface, 1. Maxwell's Equations 2. Electromagnetic Properties of Metals 3. Plasma Kinetic Theory 4 Plasma Fluid Theory 5. Surface Plasmon Polaritons (SPP) 6 Spoof Surface Plasmons (SSP) 7 Advanced Topics in Plasmonics 8. Mathematical Foundations 9. Numerical Methods for Electromagnetics, Appendix: Legendre Polynomials, Bibliography

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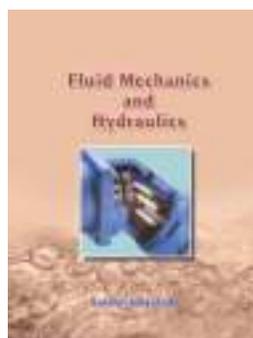


Fundamentals of Fluid Mechanics

Sawan S. Sinha

Contents: 1 Tensors 2 Mechanics: A brief review of the fundamentals 3 Description of fluid motion 4 Fluid Kinematics 5 Governing equations of fluid motion 6 Interaction of a flow field with a solid surface 7 Hydrostatics 8 Some simple representative flows of an ideal fluid 9 Some simple representative flows of a viscous fluid 10 Governing equation of motion in non-inertial reference frames

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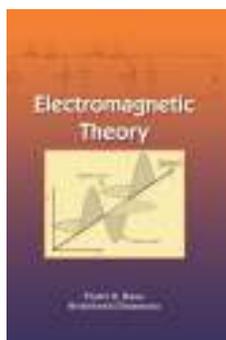


Fluid Mechanics and Hydraulics

Suresh Ukarande

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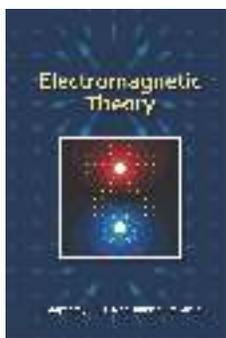


Electromagnetic Theory

Prabir K Basu
Hrishikesh Dhasmana

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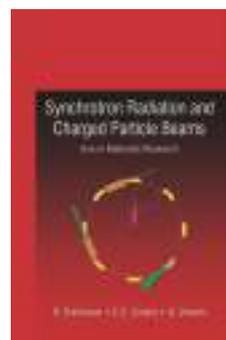


Electromagnetic Theory

T. Jayanthi
C.T. Manikandan
M. Arun

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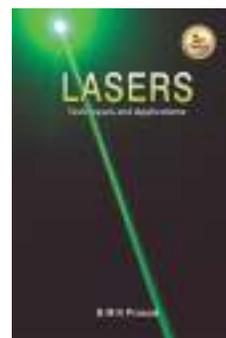
Synchrotron Radiation and Charged Particle Beams

Use in Materials Research

R. Srinivasan
C.S. Sundar
G. Umesh

Contents: 1 Interaction of Radiation with Matter 2 Nuclear Radiation Detectors 3 Synchrotron Radiation Source 4 Small Angle X Ray Scattering and Small Angle Neutron Scattering 5 X Ray Absorption Fine Structure and X Ray Fluorescence 6 Synchrotron Beamlines for Photoelectron Spectroscopy 7 Ion Beam Sources and Accelerators for Materials Research 8 Ion Beam Analysis of Materials 9 Ion Implantation – Some Applications 10 Materials Processing with Electron Beams and Materials Modification with Heavy Ion Irradiation *Appendix: Vacuum Techniques, Index*

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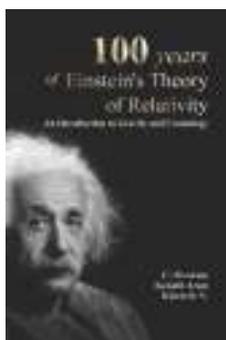
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B M K Prasad

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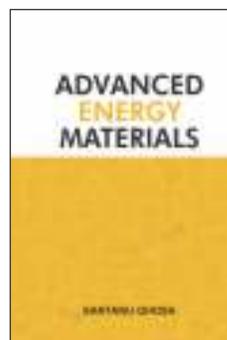
100 Years of Einstein's Theory of Relativity

An Introduction to
Gravity and Cosmology

C. Sivaram
Kenath Arun
Kiren O.V.

Contents: Preface, 1. Main Aspects of Newtonian Gravity 2. Special Relativity 3. Equivalence Principle 4. Field Equations of General Relativity 5. Exact Solutions in General Relativity 6. The Classical Tests of General Relativity 7. Gravitational Waves 8. Astrophysical Implications of General Relativity 9. Black Holes 10. Cosmology 11. Alternate Models of the Universe 12. Quantization of the Gravitational Field 13. Unified Field Theories 14. The Future in Gravitational Physics, GR, and Cosmology, Appendix, References and Additional Reading, Index and Keywords.

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Advanced Energy Materials

Santanu Ghosh

Contents: 1. Solar Energy Conversion and Silicon Solar cell 2. Heterojunction Thin Film Solar Cells 3. Dye sensitized, Quantum Dot Sensitized, Perovskite and Tandem Solar cell 4. Materials for Thermo Electric Energy 5. Materials for Photoelectrochemical Water Splitting 6. Materials and Devices for Energy Storage

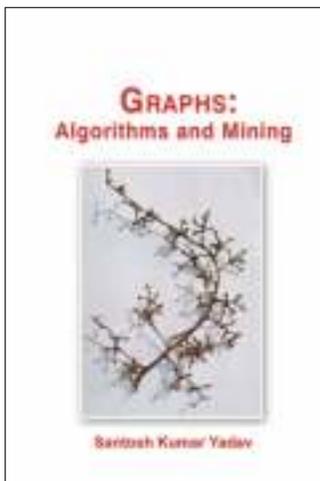
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9789386761118	Mathematical Physics : With Applications, Problems & Solutions	V. Balakrishnan	3495	2023	HB	Ane Books
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9788119662333	Quantum Mechanics - Concepts, Problems & Solutions, Vol. 2	Sushil K Tomar	2500	2025	HB	Ane Books
9789385462573	Quantum Physics	VK Jain	1495	2022	HB	Ane Books



ISBN	Title	Author	₹ Price	Year	Binding	Publisher
9789388264556	Quantum Physics : Evolution and Applications	Srinivasan	1495	2022	HB	Ane Books
9788119662982	Quantum Physics in Nano and Bio Worlds	Srinivasan	1495	2025	HB	Ane Books
9788193354216	Renewable Energy in India	VK Ahluwalia	880	2022	HB	Book Shore
9789394883659	Rocket Dynamics and Space Flight	C. Sivaram	995	2023	HB	Ane Books
9789389212655	Research and Publications Ethics	SK Yadav	1195	2023	HB	Ane Books
9789388264488	Research Methodology with Scientific Writing 2/Ed	C. Geroge Thomas	1995	2024	HB	Ane Books
9789390658114	Scientific Research Primer	K. Mustafa	1495	2023	HB	Ane Books
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9789386806390	Physical Geography	Kumar	1999	2022	HB	Ishwar Book
9789386806314	Solar Energy : Fundamentals and Applications	Priyadarshi	1999	2023	HB	Ishwar Book
9789389212648	Solid State Physics, 2/Ed	VK Jain	1995	2023	HB	Ane Books
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9788197240300	Thermal Physics and Statistical Mechanics	Vimal Kumar Jain	1695	2025	HB	Ane Books
9789390658268	Thermal and Statistical Physics : Concepts and Applications (As Per Current UGC Syllabus)	Sharma	1495	2023	HB	Ane Books
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9780582297418	Integral Representations For Spatial Models of Mathematical Physics	Vladislav	4995	2014	HB	T & F
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9780750309769	Plasma Electronics	Makabe	50	2014	HB	T & F Pod
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9780750304085	Symmetries In Quantum Mechanics	Chaichian	3995	2015	HB	CRC Pod

Santosh Kumar Yadav

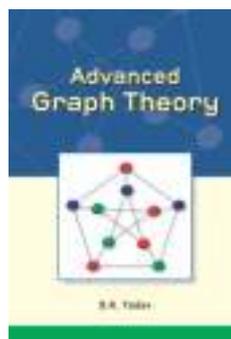


Contents:

1. Basics of Graph Theory
2. Trees
3. Network Measures
4. Graphs and Pattern
5. Graph Clustering
6. Information Diffusion in a Network
7. Graph Similarity and Alignment
8. Graph Neural Networks
9. Selected Topics in Graphs : Algorithms and Mining
10. Emerging Trends in Graph Theory

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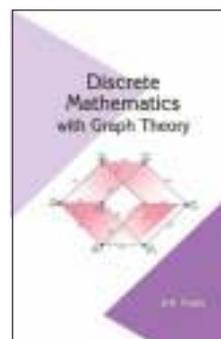
Advanced
Graph Theory



Santosh Kumar Yadav

Contents: 1. Basics of Graph Theory 2. Trees 3. Planar Graphs 4. Directed Graphs 5. Matching and Covering 6. Colouring of Graphs 7. Colouring of Graphs 8. Enumeration and Pölya's Theorem 9. Spectral Properties of Graphs 10. Spectral Properties of Graphs.

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Discrete
Mathematics
with Graph Theory

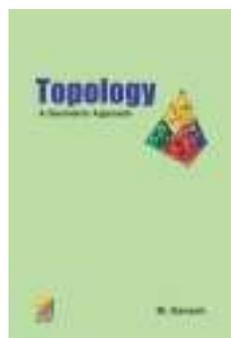
S.K. Yadav

Contents: 1. The Language of Sets 2. Basic Combinatorics 3. Mathematical Logic 4. Relations 5. Functions 6. Lattice Theory 7. Boolean Algebras and Applications 8. Fuzzy Algebra 9. Formal Languages and Automata Theory 10. The Basics of Graph Theory 11. Trees 12. Planar Graphs 13. Directed Graphs 14. Matching and Covering 15. Colouring of Graphs, References, Index

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Topology

A Geometric Approach

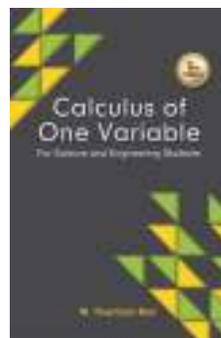


M. Ganesh

About the Book : Topology is a simultaneous generalization of two aspects: (1) the metric spaces (that includes normed linear spaces and inner product spaces and — both finite and infinite dimensional), and (2) the various geometries (Euclidean, affine, and projective). Almost all the books in the market are based on the first view point, ignoring or paying very little attention to the second view point. This book emphasizes more on the second point of view, without losing focus on the first point of view.

Moreover, the author has taken great pain in presenting the subject matter in a cogent manner and with enough clarity, so that a student can do self-study. At the same time, rigor has not been sacrificed or diluted. This book is an outgrowth of the authors many years of experience in teaching topology at the postgraduate level and, therefore, intended especially for that level. Plenty of worked out examples and problems have been included to benefit both the teachers and the students.

9789388264921 • 212 (Hb) • 2023 • ₹ 795.00



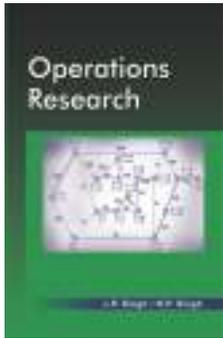
Calculus of
One Variable

For Science and
Engineering Students
2/Ed

M. Thamban Nair

Contents: 1. Sequence and Series of Real Numbers 2. Limit, Continuity and Differentiability of Functions 3. Definite Integral 4. Improper Integrals 5. Sequence and Series of Functions 6. Fourier Series References, Index

9788194891840 • 336 (Hb) • 2023 • ₹ 995.00

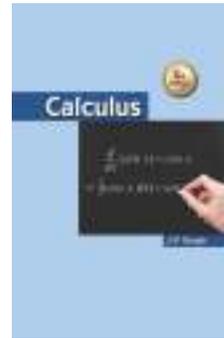


Operations Research

J.P. Singh
N.P. Singh

Contents: 1. Introduction, 2. Linear Programming: Formulation, 3. Linear Programming; The Graphical Method, 4. Linear Programming: The Simplex Method, 5. Duality and Sensitivity Analysis, 6. Transportation Problem, 7. Assignment Problem, 8. Decision Theory, 9. Game Theory, 10. Project Management: CPM and PERT, 11. Queuing Theory, 12. Replacement Models, 13. Sequencing Problem

9788119662661 • 562 (Hb) • 2023 • ₹ 1495.00

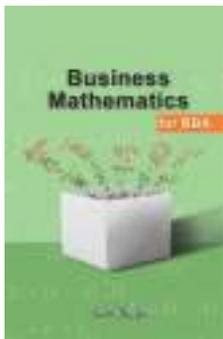


Calculus 2/Ed.

J.P. Singh

Contents: 1. Matrices and Determinants 2. Eigen Values and Eigen Vectors 3. Limits 4. Continuous Functions 5. Differentiation 6. Successive Differentiation 7. General Mean Value Theorems 8. Indeterminate Forms and L' Hôpital Rule 9. Maxima and Minima 10. Asymptotes 11. Integration and its Techniques 12. Reduction Formulae 13. Beta and Gamma Functions, End Term Examination Papers, Some Useful Trigonometric Results/Identities

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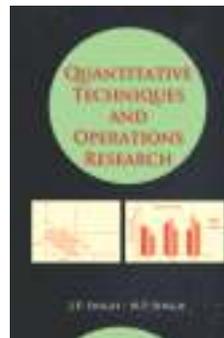


Business Mathematics for BBA

J.P. Singh

Contents: 1. Permutation and Combinations 2. Mathematical Induction 3. Sequence and Series 4. Matrices and Determinants 5. Applications of Matrices to Business and Economics 6. Differentiation 7. Applications of Differentiation 8. Partial Differentiation and its Applications 9. Integrations 10. Applications of Integration in Business and Economics 11. Differential Equation and its Applications 12. Vectors

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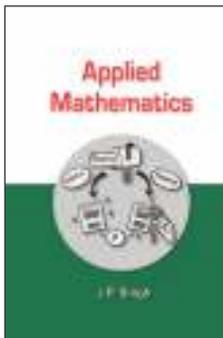


Quantitative Techniques and Operations Research

J.P. Singh
N.P. Singh

Contents: 1. Introduction to Statistics 2. Collection, Classification and Presentation of Data 3. Measures of Central Tendency 4. Measures of Dispersion 5. Correlation and Regression 6. Linear Programming: Formulation 7. Linear Programming: The Graphical Method 8. Linear Programming: The Simplex Method 9. Duality 10. Transportation Problem 11. Assignment Problem 12. Project Management: CPM and PERT 13. Queuing Theory

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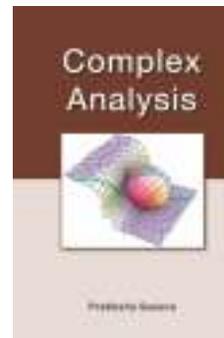


Applied Mathematics

J.P. Singh

Contents: 1. Elementary concepts 1. Probability-I 2. Probability-II 3. Random Variable and Mathematical Expectations 4. Discrete Probability Distributions 5. Normal Distribution 6. Finite difference 7. Interpolation 8. Solution of Algebraic and Transcendental equations 9. Solution of linear Simultaneous equations 10. Numerical Differentiation and Integration 11. Linear Programming: Formulation 12. Linear Programming: Graphical Method 13. The Simplex Method 14. Transportation Problem 15. Assignment Problem

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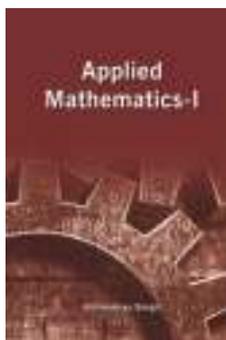


Complex Analysis

Pratiksha Saxena

Contents: 1. Pre-requisite 2. Function, Limit and Continuity 3. Complex Differentiation and Analytic Function 4. Power Series 5. Bilinear Transformation 6. Conformal Mapping 7. Complex Integration 8. Zero and Singularities of A Function 9. The Calculus of Residues 10. Uniform Convergence of Sequence and Series 11. Memomorphic Function

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Applied Mathematics-I

Abhimanyu Singh

Contents: 1. Complex Numbers 2. Infinite Series 3. Successive Differentiation 4. Expansion of Functions and Approximate Calculations 5. Asymptotes 6. Curvature 7. Curve Tracing 8. Integration 9. Area of Plane Curves (Quadrature) 10. Rectification 11. Volume and Surface of Solids of Revolutions 12. Matrices 13. Differential Equations

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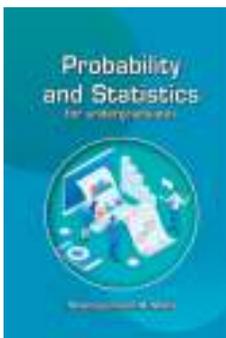


Operations Research Concepts, Problems & Solutions

Bijulal D.

Contents: 1. Operations Research Basics 2. Linear Programming Problems 3. LPP Solution - Simplex Method 4. Variants of Simplex Method 5. Duality in LPP 6. Post Optimality Analysis 7. Integer Programming Problems 8. Transportation Problems 9. Assignment Problems 10. Sequencing Problems 11. Replacement Analysis 12. Decision Theory 13. Game Theory 14. Dynamic Programming 15. Inventory Control 16. Network Analysis 17. Queuing Theory 18. Simulation

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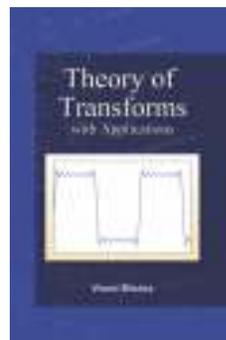


Probability and Statistics for undergraduates

Shamaparveen M. Mulla

Contents: 1. Basic Probability 2. Some Special Probability Distributions 3. Basic Statistics 4. Applied Statistics 5. Curve Fitting by Numerical Methods • Sample Paper • Tabular Values

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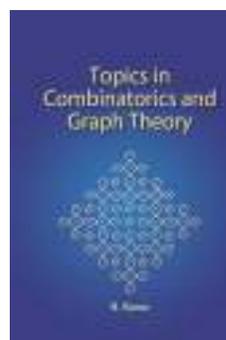


Theory of Transforms with Applications

Vinod Mishra

Contents: 1. Fourier Series 2. Continuous Fourier Transform 3. Discrete and Fast Fourier Transform 4. Laplace Transform 5. Numerical Inverse Laplace Transform 6. Mellin Transform 7. Hankel Transform 8. Legendre Transform 9. Z Transform

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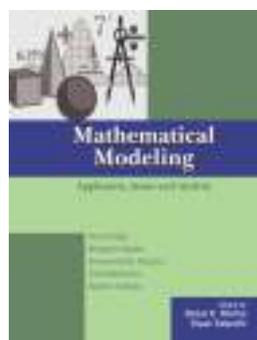


Topics in Combinatorics and Graph Theory

R. Rama

Contents: Part I: Combinatorics 1 Basics of Counting 2 Induction and Pigeon Hole Principle 3 Binomial Theorem and Binomial Identities 4 Partitions 5 Permutations, Combinations and Cycles 6 Generating Functions 7 Recurrence Relations 8 Inclusion Exclusion Principle 9 Partial Order and Lattices 10 Poly'a's Theory 11 More on Counting 12 Discrete Probability Part II: Graph Theory 13 Basic Concepts 14 Paths Connectedness 15 Trees 16 Connectivity 17 Eulerian and Hamiltonian Graphs 18 Planar Graphs 19 Independent Sets, Coverings and Matchings 20 Graph Coloring 21 Ramsey Numbers and Ramsey Graphs 22 Spectral Properties of Graphs 23 Directed Graphs and Graph Algorithms, Bibliography, Index

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Mathematical Modeling

Application, Issues and Analysis

Edited by
Bimal K. Mishra
Dipak Satpathi

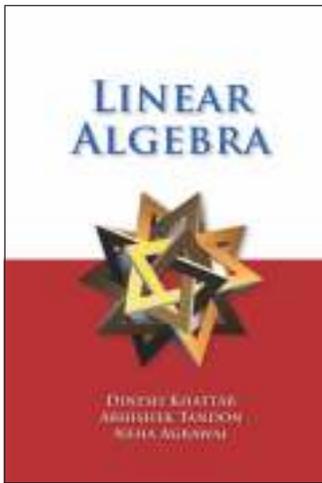
Contents: Preface, List of Contributors, Section I: Drug Design, Section II: Biological Systems, Section III: Industrial Mathematics, Section IV: Environmental Pollution, Section V: Fluid Mechanics, Section VI: Applied Analysis

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Linear Algebra

Dinesh Khattar
Abhishek Tandon
Neha Agrawal



Contents

1. Vector Spaces
2. Basis and Dimension
3. Linear Transformations
4. Matrices of Linear Transformations
5. Dual Spaces
6. Diagonalization
7. Inner Product Spaces
8. More on Inner Product Spaces
- Appendix I: Echelon Form
- Appendix II: Applications of Diagonalization
- Appendix III: Least Squares Approximations
- Appendix IV: Minimal Solutions to System
- Appendix V: Rigid Motions and Conic Sections
- Selected Bibliography
- Index

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Elementary Linear Algebra

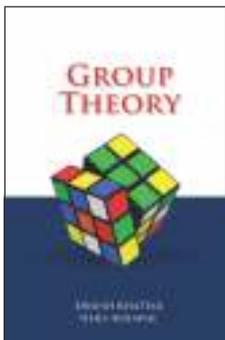
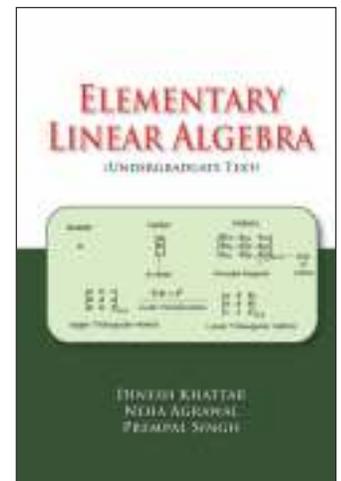
Undergraduate Text

Dinesh Khattar
Neha Agrawal
Prempal Singh

Contents

1. Vectors
2. Matrices
3. System of Linear Equations
4. Eigenvalues and Diagonalization
5. Vector Spaces and Linear Transformations
- Appendix I: Trace and Determinant of a Matrix
- Appendix II: Minors and Cofactors
- Appendix III: Adjoint of a Matrix
- Appendix IV: Applications of Linear Equations
- Appendix V: LU Decomposition
- Appendix VI: Computer Graphics
- Selected Bibliography, Index

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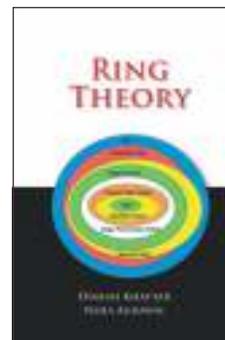


Group Theory

Dinesh Khattar
Neha Agrawal

- Contents:**
1. Group
 2. Finite Groups and Subgroups
 3. Cyclic Groups
 4. Permutation Groups
 5. Cosets and Lagrange's Theorem
 6. Normal Subgroups and Factor Groups
 7. Group Homomorphism and Isomorphism
 8. Automorphisms
 9. Direct Products
 10. Group Actions
 11. Sylow Theorems

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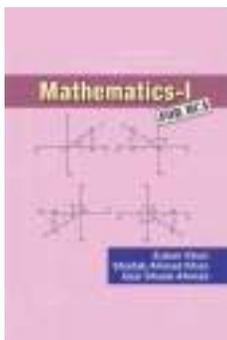


Ring Theory

Dinesh Khattar
Neha Agrawal

About the Book: This textbook has been designed for the UG/PG students of mathematics for all universities in India. It is primarily based on the classroom lectures, the authors gave at the University of Delhi. This book could be used both for self-study as well as course text. Full details of all proofs are included along with innumerable solved problems, interspersed throughout the text and at places where they naturally arise, to understand abstract notions. The proofs are precise and complete, backed up by chapter end problems, with just the right level of difficulty, without compromising the rigor of the subject.

9789390658480 • 304 (Hb) • 2023 • ₹ 1995.00



Mathematics-I For BCA

Zubair Khan
Shadab Ahmad Khan
Qazi Shoeb Ahmad

Contents: Preface 1. Trigonometry and Complex Numbers 2. Matrices and Determinant 3. Differential Calculus 4. Integral Calculus 5. Vector Calculus

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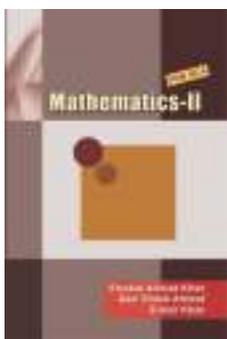


Numerical and Statistical Techniques

Qazi Shoeb Ahmad
Zubair Khan
Shadab Ahmad Khan

Contents: Preface 1. Error and Computer Arithmetic 2. Solution of Algebraic and Transcendental Equations 3. Finite Differences 4. Interpolation 5. Numerical Differentiation and Integration 6. Numerical Solution of Ordinary Differential Equations 7. Curve Fitting 8. Regression Analysis 9. Time Series and Forecasting 10. Test of Significance and Analysis of Variance Appendix, Index.

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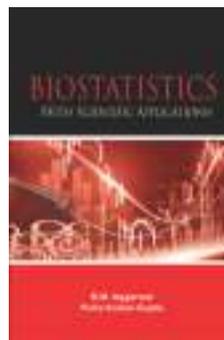


Mathematics-II For BCA

Zubair Khan
Shadab Ahmad Khan
Qazi Shoeb Ahmad

Contents: Preface, Unit-I : Partial Differentiation and its Applications, Unit-II : Ordinary Differential Equations, Unit-III : Partial Differential Equation and Geometry, Unit-IV : Probability and Distributions, Unit-V : Measures of Central Tendency.

9788119662340 • 384 (Hb) • 2023 • ₹ 1495.00

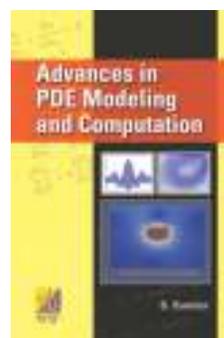


Biostatistics (With Scientific Applications)

B.M. Aggarwal
Pulin Kumar Gupta

Contents: 1. Introduction and Basic Concepts 2. Statistical Averages and Dispersion 3. Probability and Mathematical Expectation 4. Probability Distributions 5. Correlation 6. Regression Analysis 7. Sampling Theory and Testing of Hypothesis 8. Vital Statistics 9. Survival Analysis

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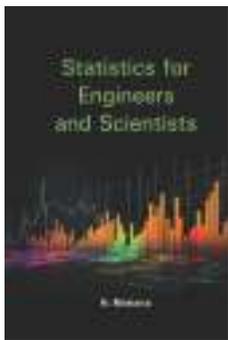


Advances in PDE Modeling and Computation

S. Sundar

Contents: - Mesh free method for numerical solution of the eikonal equation - A spline collection method for pricing options under the jump-diffusion model - An ale-based finite element method for the simulation of an impinging droplet on a hot surface - Multilevel augmentation method for parameter identification - StaRMAP- a second order staggered grid method for radiative transfer: application in radiotherapy - Exact controllability in domains with oscillating boundaries: homogenization - AC0 interior penalty method for an optimal control problem governed by the biharmonic operator - A multi-level finite element discretization for efficient solution of multidimensional population balance system - Meshfree numerical scheme for time dependent problems in fluid and continuum mechanics - On the wave equations of kirchhoff narasimha and carrier - Micromechanical modeling on non linear behaviour of 1-3 type piezocomposite - A meshfree approach for the numerical solution of straight fiber equations - Finite pointset method (FPM) for gas flows in slip regime - Comparison of RBF and hermite-RBF local schemes with variable (optimized) shape parameter - On the construction of dual gabor frame generators

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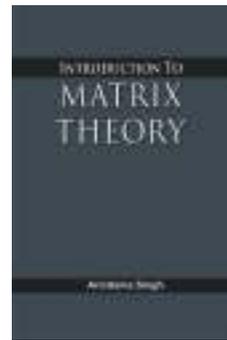


Statistics for Engineers and Scientists

N. Mohana

Contents: 1. Probability and Random Variable 2. Standard Distribution 3. Two Dimensional Random Variables 4. Testing of Hypothesis 5. Design of Experiments

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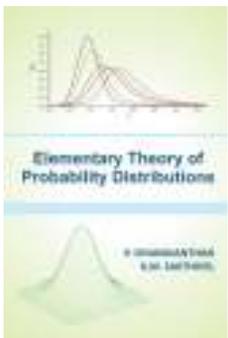


Introduction to Matrix Theory

Arindama Singh

Contents: 1. Matrix Operations 2. Systems of Linear Equations 3. Subspace and Dimension 4. Orthogonality 5. Eigenvalues and Eigenvectors 6. Canonical Forms 7. Norms of Matrices, Short Bibliography, Index.

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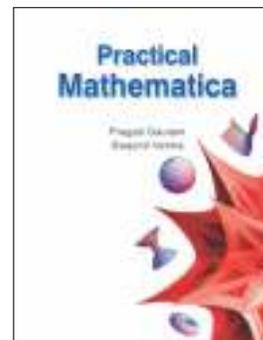


Elementary Theory of Probability Distributions

P. Dhanavanthan
K.M. Sakthivel

Contents: 1 Probability and Random Variables 2 Functions of Random Variables 3 Characteristics of Distributions 4 Generating Functions 5 Discrete Probability Distributions 6 Continuous Probability Distributions 7 Pearsonian System of Distributions 8 Truncated Distributions 9 Compound Distributions 10 Infinitely Divisible Distributions 11 Convolution of Distributions 12 Bivariate Distributions 13 Sampling Distributions 14 Non-Central Distributions 15 Order Statistics 16 Quadratic Forms 17 Life Time Distributions and Reliability, Bibliography, Index

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Practical Mathematica

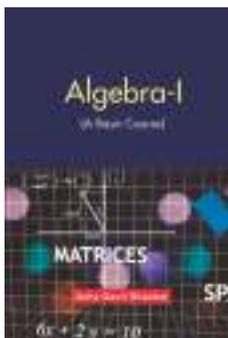
Pragati Gautam
Swarnil Verma

About the Book: This Book has been designed to work as a first introduction to Mathematica software for Undergraduate students. The topics are in accordance with the syllabus of the paper on Mathematica offered to the first and second semester Mathematics (Hons) students by the University of Delhi under CBCS system and many other universities. The authors have utilized their wide experience of teaching Mathematica Practical paper at Undergraduate level by incorporating minutest of the details which a beginner might find difficult to understand. The lucid presentation of the theory is well complemented by plenty of graphs and unsolved exercises. In presence of so many books on Mathematica around, this title, for the targeted readers, will turn out to be the best in its class.

Some of the Special features of Book are :

- Concise and easy to understand presentation of concepts.
- Written with a view to present a qualitative understanding of the subject.
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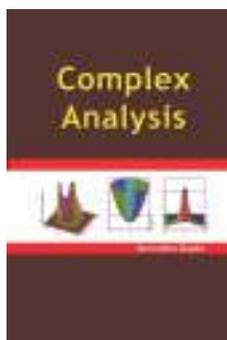


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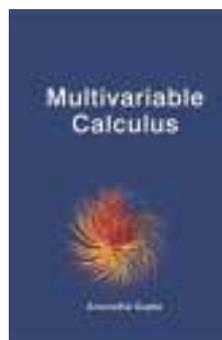


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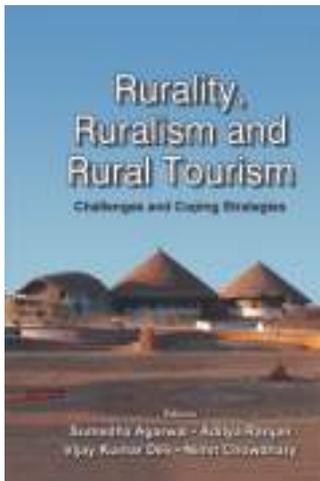




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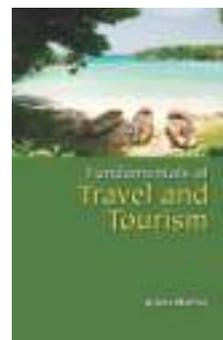


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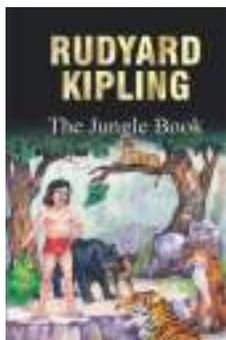
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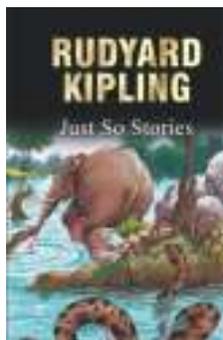
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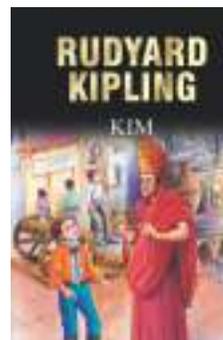
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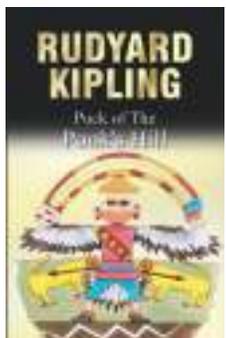
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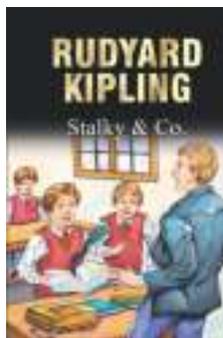
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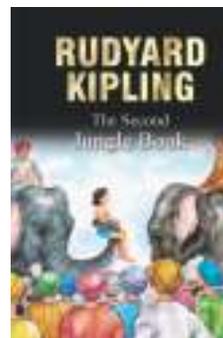
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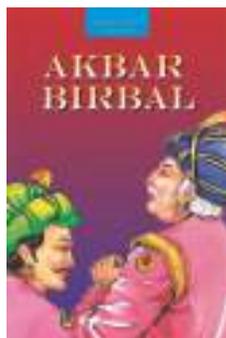
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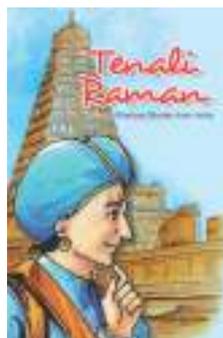
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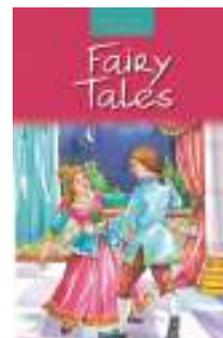
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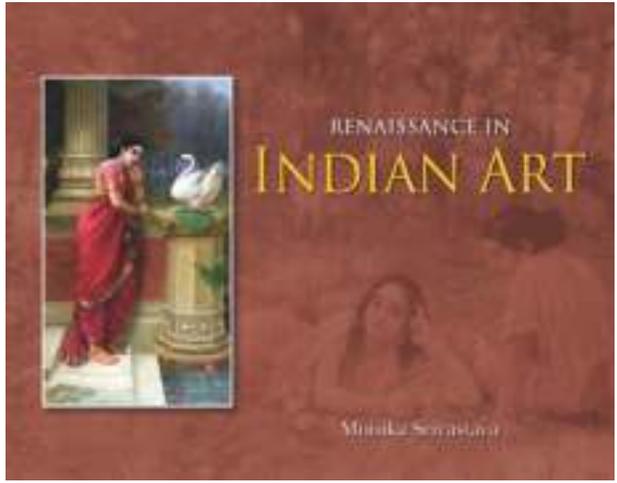


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Monika Srivastava



About the Book: Renaissance in Indian Arts elaborates the evolution of fine arts in India during the British period. This book will help the readers to understand the forced adoption of the European style in India with the advent of the British Rule and how the artists of Indian origin fought their way out of the shadow of the western methods and techniques, initially by combining with them and later by infusing spirit of Indian art in Indian paintings. This book comprises of five chapters. The first chapter covers historical perspective of art, its origin and meaning.

Chapter two explains the impact of European style on Indian art. Chapter three covers the re-establishment of Indian art through western methods and techniques. Chapter four reflects on renaissance of Indian spirit in Indian art.

Chapter five concludes the book with due emphasis on the various facets of Indian art during British period.

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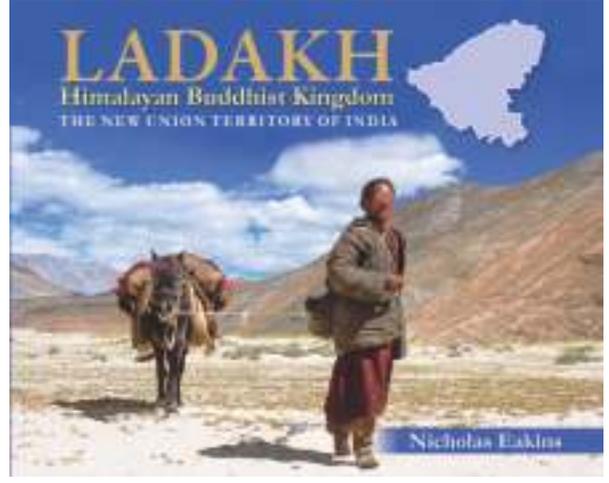
Ladakh
Himalayan Buddhist Kingdom
 The New Union Territory of India

Nicholas Eakins

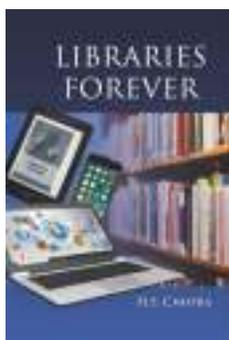
About the Book: Ladakh, declared a union territory of India on the 31 October 2023 by the Government of India, is one of the most famous places on earth for its breathtaking landscapes, the crystal clear skies, the highest mountain passes, thrilling adventure activities, Buddhist Monasteries and festivals. Earlier, it was a part of the state of Jammu and Kashmir.

The new Union Territory of Ladakh includes the districts of Leh and Kargil as well as the districts - now in Pakistan Occupied Kashmir - of Gilgit, Gilgit Wazrat and Chillas.

Nicholas Eakins, the author, has been exploring and capturing this Himalyan range, God's wonder, through his camera for the last 32 years. He has touched on the scenic beauty of the landscapes besides the colourful lives of the wonderful people of Ladakh. He recapitulates his years of experience and understanding of the entire region through his lens in this book, an exclusive collection of pleasing, spectacular and stunning photographs. For sure, this photographic journey will interest tourists, academics, researchers and scholars of geopolitics alike.



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H.S. Chopra

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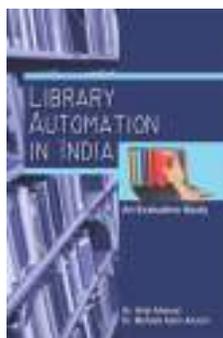
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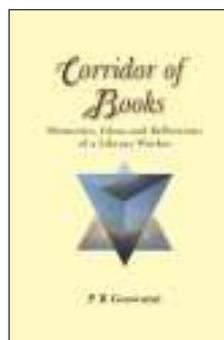
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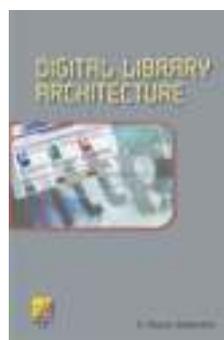
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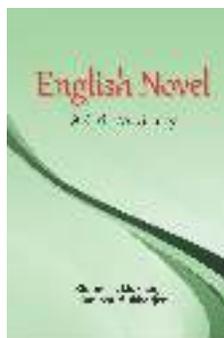


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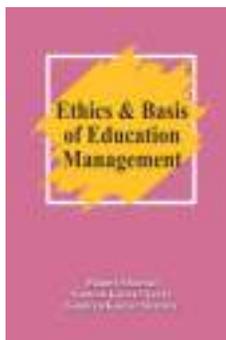


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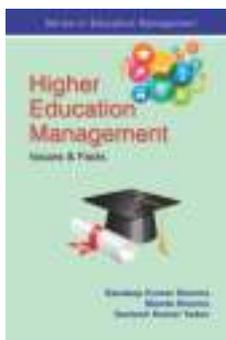


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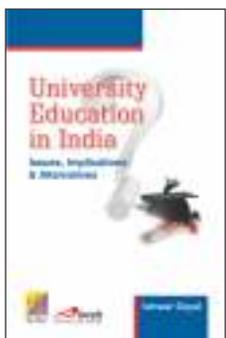


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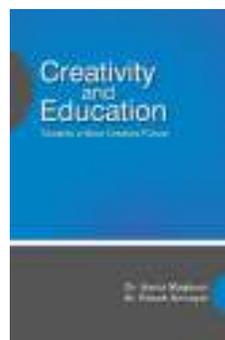


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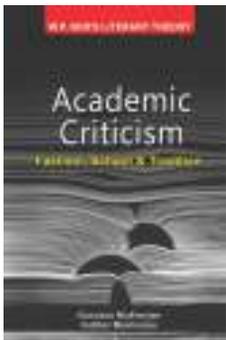


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Mamta Sharma
Sandeep Kumar Sharma

Contents: 1. Education Management: An Introduction 2. Organization and Administration 3. Quality Assurance in Education 4. Education Infrastructure. 5. ICT in Education 6. Quality Organizations of Education Management 7. Curriculum Designing 8. Marketing of Educational Services 9. Promotion, People and Service Quality in Education 10. Laws Related to Education 11. Disasters and Reforms in Education

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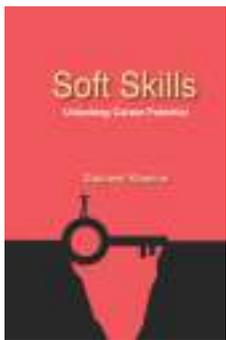
Academic Criticism

Fashion, School & Tradition

Gurudas Mukherjee
Indibar Mukherjee

Contents: 1. Academic Criticism and W.P. Ker 2. Ker's Theories 3. Theory of Historical Criticism 4. Fashion and School 5. Conclusion

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Soft Skills

Unlocking Career Potential
(Full Four Color)

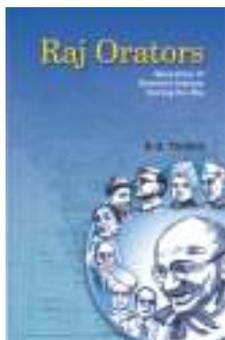
Gautami Khanna

About the Book: In today's corporate world, hard skills aren't enough. Soft Skills: Unlocking Career Potential is your essential guide to mastering the soft skills that drive success. Perfect for young professionals, this book blends academic insight with practical tools to navigate the complexities of modern workplaces.

Key Takeaways:

- **Communication:** Learn to communicate clearly and persuasively, especially in cross-cultural settings.
- **Time Management:** Boost productivity with proven methods like the Eisenhower Matrix and Pomodoro Technique.
- **Teamwork:** Leverage collective intelligence to drive innovation and solve complex problems.
- **Emotional Intelligence:** Lead with empathy, manage emotions, and build strong workplace relationships.
- **Stress Management:** Develop resilience and prevent burnout with effective stress management strategies.
- **Critical Thinking & Problem-Solving:** Enhance your ability to tackle challenges and make informed decisions.
- **Adaptability:** Stay ahead by embracing change and turning disruptions into opportunities.

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Raj Orators

Speeches of Eminent
Indian During The Raj

B.G. Tandon

Contents: Dedications, Acknowledgements, Preface, PART 1 – ORATORS I. The Art of Oratory II. The Raj III. The Predecessors of Gandhi IV. Gandhi and His Contemporaries V. The Successors of Gandhi VI. An Overview PART 2 – ORATIONS I. Raja Rammohun Roy (1772-1833) Principles of Unitarian Christianity II. Dwarkanath Tagore (1794-1846) A Grateful Appreciation, 1842 III. Ram Gopal Ghose (1815-1868) On Queen Victorias Proclamation, 1858 137 IV. Michael Madhusudan Dutt (1824-1873) The Anglo-Saxon and the Hindu, 1854 V. Rajendra Lala Mitra (1824-1891) Adulteration of Ghee, 1886 161 VI. Dada Bhai Naoroji (1825-1917) India Must Be Bled, 1900 VII. Christo Das Pal (1834-1889) The Achievements of the Indian Press, 1875 VIII. Keshub Chunder Sen (1838-1884) The Religious and Social Conditions of India, 1870 IX. Mahadev Govind Ranade (1842-1901) India a Thousand Years Ago, 1900 X. Womesh Chunder Bonnerjee (1844-1906) Indian Grievances, 1889 XI. Budrudin Tyabji (1844-1906) Native Press, 1896 XII. Rash Bihari Ghose (1845-1921) The Sins of Lord Curzon, 1905 XIII. Pheroze Shah Mehta (1845-1915) The Beneficent Results of the Visits of Their Majesties King George and Queen Mary to India, 1912 XIV. Ananda Mohan Bose (1846-1906) The Indian Educational Service, 1896 XV. Surendranath Banerjee (1848-1925) The Situation in India, 1909 XVI. Romesh Chunder Dutt (1848-1909) Social Progress in India, 1901 269 XVII. Lal Mohan Ghose (1849-1909) We Shall Not Be Parted, 1905 273 XVIII. Kashinath Trimbak Telang (1850-1893) The Ilbert Bill, 1883 XIX. Bal Gangadhar Tilak (1856-1920) The National Demand, 1906 293 XX. Bipin Chandra Pal (1858-1932) The Swaraj Ideal, 1907 XXI. Motilal Nehru (1861-1931) Desire for Swaraj, 1924 XXII. Madan Mohan Malaviya (1861-1946) Swadeshi Movement, 1906 XXIII. Rabindranath Tagore (1861-1941) Rammohun Roy, 1933 XXIV. Swami Vivekananda (1863-1902) Response to Welcome, 1893 XXV. Lala Lajpat Rai (1865-1928) Towards Freedom, 1920 XXVI. Gopal Krishna Gokhale (1866-1915) Womesh Chunder Bonnerjee, 1906 XXVII. Srinivasa Sastri (1869-1946) Dinshaw Wacha, 1940 XXVIII. Mahatma Gandhi (1869-1948) God Is Truth, 1931 XXIX. Chittaranjan Das (1870-1925) The Meaning of Freedom, 1921 XXX. Sri Aurobindo Ghose (1872-1950) Gita, 1909 XXXI. Bhula Bhai Desai (1877-1946) Why Is India What She Is Today? 1934 XXXII. Sarojini Naidu (1879-1949) The Battle of Freedom Is Over, 1947 XXXIII. Chakravarti Rajagopalachari (1879-1972) Election of Committee on Subjects Assigned to the Union Centre, 1947 XXXIV. Sarvepalli Radhakrishnan (1888-1975) Rajendra Prasad's Election as Chairman of the Constituent Assembly, 1946 XXXV. Jawaharlal Nehru (1889-1964) Asia Finds Herself Again, 1947 XXXVI. Bhimrao Ramji Ambedkar (1891-1956) On the Resolution Regarding Aims and Objects of the Constituent Assembly, 1946 XXXVII. Subhas Chandra Bose (1897-1945) Give Me Blood, I Promise You Freedom, 1944 XXXVIII. Shyama Prasad Mookerjee (1905-1953) Greatness of India, 1937 Bibliography, Index

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Unfolding the Potentials of Women and Girls including Children

Sabka Saath Sabka Vikas Perspective

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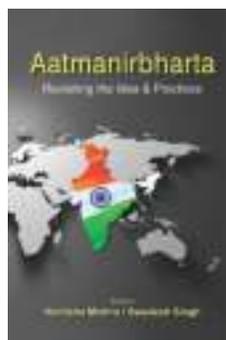
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Aatmanirbharta

Revisiting the Idea & Practices

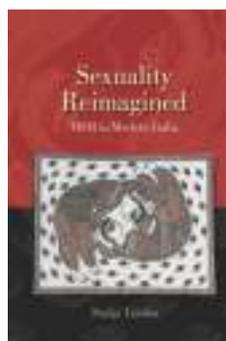
Editors

Vandana Mishra

Swadesh Singh

About the Book: The idea of 'Aatmanirbharta' is eternal. It is about the strength of the society and eternity of the nation. Yet the practical aspect of it is not only debatable in the present inter-dependent world order but is also subject to push and pulls, pressures and challenges of resources originating from the decidedly unequal world. Herein, the need of the hour is to understand one's self—our needs, our capacity, our strengths, and also our limitations—and then move on to improve and excel with a vision of reflecting one's personality in that of society and the nation. The journey of being Aatmanirbharta is all about deciphering the heights that we can scale provided we are grounded enough. This book is an endeavour to understand the journey of idea and practices of Aatmanirbharta.

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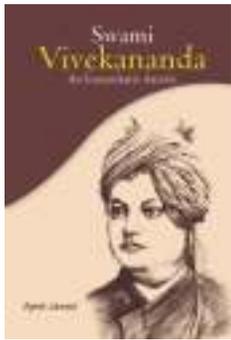
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MSM in Modern India

Shailja Tandon

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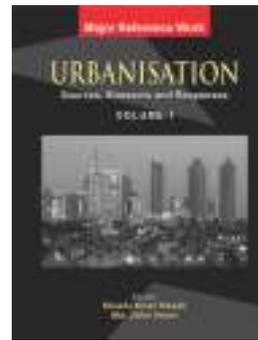


Swami
Vivekananda
An Iconoclastic Ascetic

Ajeet Jawed

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Urbanisation
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MAJOR REFERENCE WORK

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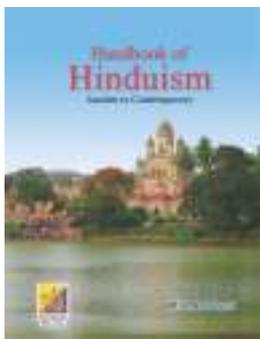


**Quality Control
Techniques in Social
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Sciences**

N. Ravindranathan

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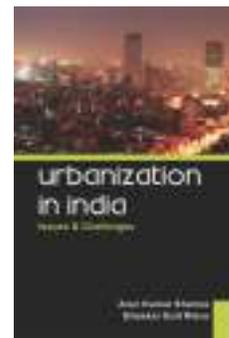


**Handbook of
Hinduism**
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M V Nadkarni

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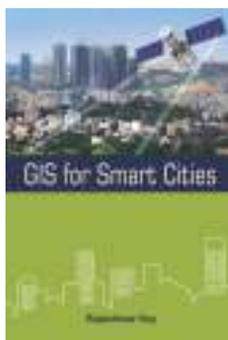


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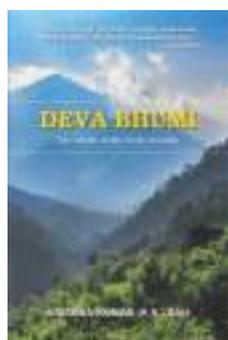


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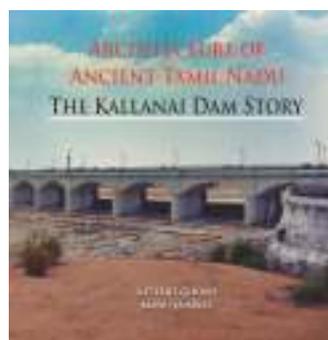
Deva Bhumi

The Abode of the Gods in India

Krishna Kumar (K.K.) Sah

Contents: Foreword by Ram Dass, Preface by Raghu Markus, Introduction, Part I Neem Karoli Baba Maharaj, How this book came to be, Part II The Sages during the Chand Dynasty, Shri Raukhdiya Baba, Swami Vivekananda, Shri Harshdev Puri Maharaj, Khaki Baba, Part III Early Days, Descriptions of Sombari Baba, Kakrighat, Padampuri, First Darshans with Baba Annapurna Siddhi, Pilgrimage, Healing, Animals, Ordinary Miracles, Lessons and Grace, Quotes from Sombari Baba, Predictions, Mahasamadhi, Part IV Hairakhan Baba, Bal Brahmachari Maharaj, Epilogue, Glossary, Acknowledgments, Credits

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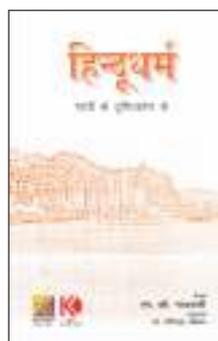


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Satyajit Ghosh
Manu Jaiswal

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हिन्दूधर्म

गांधी के दृष्टिकोण से

एम.व्ही. नाडकर्णी

ग्रंथ के संबंध में: इस ग्रंथ का तात्पर्य, हिन्दूधर्म के संबंध में अत्यंत सक्रीय और ऐतिहासिक प्रक्रिया को सार्थक ढंग से विश्लेषित करना है, साथ ही हिन्दूधर्म के प्रति गलतफहमियों को हटाना और उस पर समय-समय पर हुए पुनर्खोज के संपूर्ण प्रक्रिया को पकड़ना भी है। इस पुस्तक को हिन्दूधर्म में निहित अन्य धर्म के प्रति सहजीवनत्व के अंश एवं आदरभाव को पहचानते हुए, गांधी के दृष्टिकोण से प्रस्तुत किया गया है। गांधी का हिन्दूधर्म के प्रति दृष्टिकोण इस विश्वसनीय कथन पर जोर देता है कि हिन्दूधर्म अत्यधिक उदार, अनेकत्वता और सामाजिक संवेदनात्मकता से युक्त धर्म है। यह ग्रंथ अनेक प्रचलित अंधमान्यताओं को नकारता है, जैसे—जाति पति हिन्दूधर्म का अंतर्भूत तत्व है, हिन्दूधर्म अर्भौतिक है और आर्थिक प्रगति के प्रति व्यतिरिक्त है, उसका समीकृत रूप आनुवंशिकता के प्रति प्रतिब) है, वह वैयक्तिकता के विरोध में है, अताकिक है, वह नैतिकता से असंपृक्त है आदि आदि। प्रस्तुत ग्रंथ हिन्दूधर्म में निहित उसकी सक्रियात्मकता और अपनी परिवर्तनशीलता की प्रक्रिया को प्रस्तुत करता है। हिन्दूधर्म की गत्यात्मकता, तीन चरणों में प्रस्तुत है—शास्त्रीय, भक्ति आंदोलन एवं आधुनिक। यह ग्रंथ आर्थिक एवं सामाजिक विकास के प्रति हिन्दुओं के दृष्टिकोण का परिशोधन करता है, परिणाम में उसे अधिक मानवीय एवं परिसर सभरणीय पाता है।

भारतीय भाषायी साहित्य के साथ-साथ प्रस्तुत ग्रंथ विविध प्रकार के स्रोतों को आधार बनाया है। यह ग्रंथ उन सभी के प्रति संबोधित है जो हिन्दूधर्म में अभिरुचि रखते हैं, साथ ही जो धर्म एवं समाज विज्ञान के विद्वान हैं।

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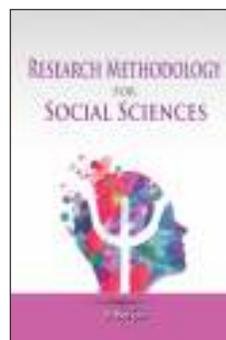


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Santosh Kumar Yadav

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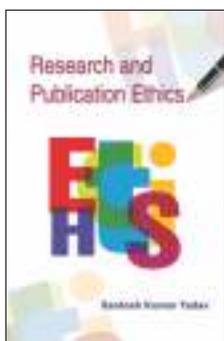


Research Methodology for Social Sciences

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Good Practices and Ethics in Research and Publication

As per the UGC syllabus for Ph.D. Students

Dilip Datta

About the Book: This is a Textbook for the compulsory Course on Research and Publication Ethics approved by UGC for Ph.D. students.

The following are the salient features of the book:

- Introduces the general ethics to be respected in research and publication
- Suggests good practices to be followed in research and publication
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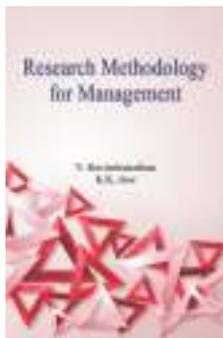


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N. Ravindranathan
K.K. Jose

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Scientific Research Primer

K. Mustafa

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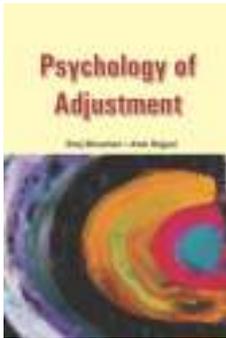
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A Practical Guide

S. Suresh
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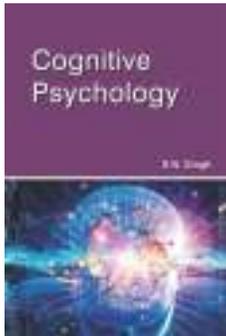


Psychology of Adjustment

Braj Bhushan
Alok Bajpai

Contents: 1. Human Behaviour: Psychological and Social Significance, Human Adjustment Process, Prioritization of Immediate and Intermediate Goals, Evolution of Social Norms, Adjustment: "The Normality" 2. Dimensions of Subjective Adjustment, Dimensions, Adjustment—Range of Reactions 3. Maintenance Needs, Need Hierarchy Theory and Maintenance Needs, Maintenance Needs, 4. General Adjustive Behaviour and Frame of Reference, Frames of reference: Life Stages, General Adjustive Behaviour, Characteristics of Healthy Development, Self Assumptions 5. Emotions and Adjustment , Emotion and Adjustment, Emotion: The Indian Perspective, Emotions and Health 6. The Art of Adjustment: Defending the Self, Neurotic Nucleus and Neurotic Paradox, Defending against threats, Task-oriented Reaction Pattern, Damage Repair Mechanisms, Defense Mechanisms 7. Adjusting to Violence, Understanding Frustration, Model of Aggression, Aggressive Behaviour, Pathological Aggression, Adjusting to Violence 8. Our Time 9. Be the Change, Self and the Other, Emotions, Change and Its Context, Process of Transformation, References

9789386761941 • 164 (Hb) • 2023 • ₹ 999.00



Cognitive Psychology

S.N. Singh

Contents: 1. Cognition, Perception, and Language 2. The Psychology of Decision Making 3. Creative Problem Solving Process 4. Perspectives on Language and Thought 5. Cognitive Views of Human Motivation 6. Cognitive Bases of Motivation: Intrinsic Motivation, Attribution, Competence 7. Measurement of Motives 8. Cross-Cultural Approaches to Human Motivation 9. Emotion: Cognitive, Physiological and Behavioral Components 10. Neural Mechanisms of Emotional Regulation and Decision Making 11. Stress, Appraisal, and Coping 12. Theories of Intelligence 13. Psychology of Creativity

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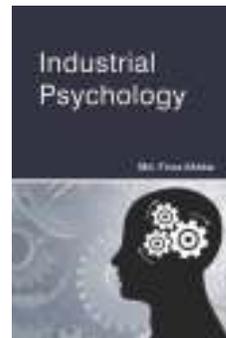


Child Psychology

Mahjabeen Khanam

Contents: 1. The Nature and Nurture of Child Development 2. The Humanist Doctrine of Man 3. Cognitive and Motor Development 4. Social and Emotional Development in Early Childhood 5. Child Rearing Practices and Their Effects on Child Development 6. Academic Environments in Early Childhood 7. Classroom Environment and its Impact on Learning 8. Role of Teacher in Facilitating Growth and Development in Early Childhood 9. The Behavioral Challenges and Behavioral Modification

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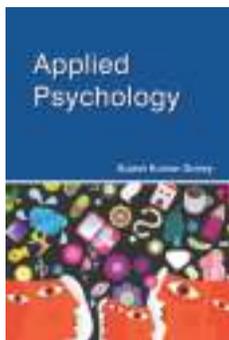


Industrial Psychology

Md. Firoz Akhtar

Contents: 1. Working Environment and Its Impact on Performance 2. Counterproductive Work Behaviour: Causes and Prevention 3. Strategic Management for Competitive Advantage 4. New Developments in Industrial Leadership 5. The Effects of Transformational and Change Leadership on Employees 6. Organizational Change and Development 7. Managing Change in Organizations and Working Culture 8. Job Satisfaction: Work Attitudes and Job Motivation 9. Performance Appraisal: Meaning, Objectives, Methods and Process 10. The Important of Job Evaluation to Organizational Success

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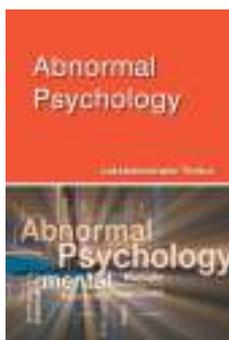


Applied Psychology

Sujeet Kumar Dubey

Contents: 1. Introduction to Applied Psychology 2. Frontiers: From Data to Truth in Psychological Science 3. Counseling, Psychological, and Social Work Services 4. Educational Psychology: Applications for Learning and Teaching 5. The Place of Psychology in the System of Sciences 6. Human Factors and Ergonomics 7. The Role of Forensic Psychology in Criminal Justice 8. Criminal Profiling and Psychoanalysis of Violent Crime 9. Multiple Personality Disorder and Criminal Responsibility 10. Critical Thinking in Psychology

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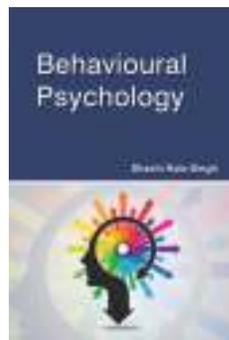


Abnormal Psychology

Lakshmeshwar Thakur

Contents: 1. Introduction of Abnormal Psychology 2. Intellectual disability and Disorders 3. Emotions, Personality and Psychopathology 4. Mental Illness and Abnormal Behaviour 5. Diagnostic and Management Guidelines for Mental Disorders in Primary Care 6. Care and Treatment of Abnormal behavior and Mental Illness 7. Education of Children with Special Needs 8. The Challenge of Children with Special Needs 9. Genes, Environment, and Criminal Behavior 10. The Effects of Gender, Sexuality and Socialization on Abnormal Behavior 11. Effects of Mental Health on Individuals and Populations 12. Abnormal Psychology in Context: Voices and Perspectives

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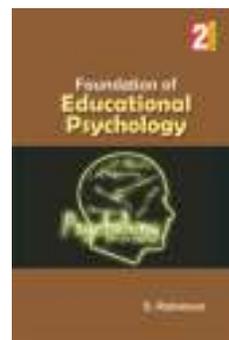


Behavioural Psychology

Shashi Kala Singh

Contents: 1. Introduction of Behavioural Psychology 2. Behavioural Approach to Learning 3. Sensation, Perception, and Attention 4. Human Motivation and Behaviour 5. Psychology of Selling, Marketing and Advertising 6. Behavioral Disorder Symptoms 7. Intellectual Disability (Mental Retardation) 8. Social Influences Affecting Mental Health 9. Psychology and Education of Children with Special Needs 10. Personality Integration 11. Behavioral Assessment 12. Behavior in the 21st Century 13. Psychological Treatment Services and Psychotherapy 14. Crime and Criminal Behaviour

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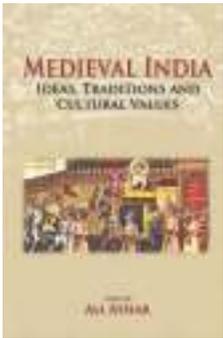


Foundation of Educational Psychology 2/Ed.

S. Robinson

Contents: Foreword, Preface 1. Educational Psychology—Meaning, Nature and Scope 2. Growth and Development 3. Social, Emotional and Moral Development 4. Nature and Importance of Learning 5. Motivation 6. Techniques of Teaching 7. Nature of Intelligence and Creativity 8. Dimensions of Personality 9. Mental Health and Mental Hygiene

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Medieval India Ideas, Traditions and Cultural Values

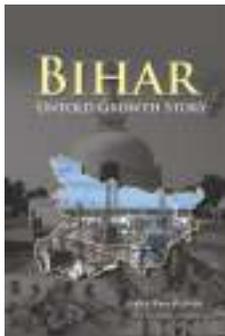
Editor:
Ali Athar

About the Book: This book contains twenty three well researched and documented articles by scholars of repute of their respective field of specialization. Traditions and culture of Medieval Kashmir, Kumaon, Deccan and Awadh have been reassessed through new sources of information and fresh interpretations have been put forward for the academics to analyze.

India's cultural interaction with Central Asia and Europeans provides a new perspective for the researchers-Of Medieval India. Similarly, emergence of various-cultural and trade centres of Medieval India and its impact on the society has been meticulously studied and penned by the contributors of this book. The book includes traditional warfare, building technology, religious customs and practices, state formation in Rajputana and articles based on vertical literature-

This work will surely attract the attention of scholars interested in a new theme of ideas, tradition and cultural values of Medieval India.

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Bihar Untold Growth Story

Indra Sen Kumar

About the Book: The present book titled Bihar: Untold Growth Story is, in a sense, a treatise on socio-economy of Bihar highlighting the states glorious, remote and immediate past with the present terrible economic position indicating things to come in the state suggesting several measures towards realizing the goal of economic and social accomplishment. The book has taken care of the latest issues tormenting the state authorities and the economist pertaining to rural and urban poverty, migration of Bihari labour force, corruption and criminalisation proving to be a stumbling block in development as also the debated aspect of improving the states financial position by way of special package or special status. The book though highlights achievements of the state, brings out the myths of these, laying down that the development process is characterized by truths and half truth very boldly observing and finally suggesting that accomplishment is not the same thing as achievements, nor is the fact that what is apparent is real.

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Geo-Environment of Gujarat

Bushan Kaul

Contents: Preface, Part—I, 1. Introduction 2. Natural Resources 3. Groundwater 4. Mining & Other Pollutions 5. Earthquakes & Neotectonics 6. Dinosaur Part—II: District Appraisal 7. Mehsana District 8. Ahmedabad District 9. Jamnagar District Part—III: Site Specific/Problem Specific 10. Lignite Mining in Rajpardi-Nani Naroli Mines in Bharuch & Surat Districts 11. Lignite-Mining in Panandro-Matanomad area Kachchh District 12. Natural Hazard — Bhuj Earthquake, References, International Stratigraphic Chart, Geo Environment Scheme, EIA Scheme.

9789385462450 • 162 (Hb) • 2023 • ₹ 995.00

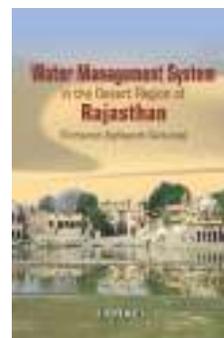


जल, जीवन और समाज

जिब्राईल

पुस्तक के विषय में: जल व जलीय संसाधनों की उपयोगिता हेतु जनजागृति के लिए किये गये श्री अनुपम मिश्र जी के जीवन भर के प्रयासों एवं पर्यावरण के क्षेत्र में उनके उत्कृष्ट योगदान के लिए उन्हें श्रद्धांजलि अर्पित करने हेतु हिंदी भाषा में जल, जीवन और समाज विषय पर इस पुस्तक को संपादित करने का एक छोटा प्रयास है। जैसा विदित है कि आज पर्याप्त जल-क्षेत्रों में लोगों द्वारा अपनी दैनिक जरूरत से ज्यादा पानी का दोहन करने के कारण जल की बर्बादी हो रही है और इस अमूल्य संसाधन की कमी से लोग त्रस्त भी हैं। जल की कमी से आज भारत ही नहीं बल्कि विश्व के अधिकांश देश इस समस्या से जूझ रहे हैं।

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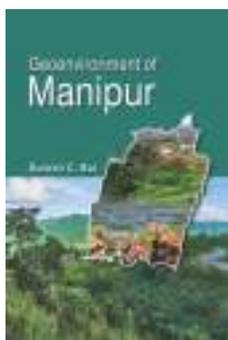


Water Management System in the Desert Region of Rajasthan (Thirteenth - Eighteenth Centuries)

Jibraeil

Contents: Preface, Abbreviations, List of Figures, 1. Introduction, 2. Water Harvesting and Irrigation Techniques in Phalodi, 3. Technique of Irrigation and Agricultural Production in Nagaur, 4. Water Bodies and Harvesting Techniques in Bikaner, 5. Water Harvesting Techniques in Churu, Chhapar and Bidasar, 6. Water Harvesting and Irrigation Techniques in Jaisalmer, Conclusion, Appendices, Glossary, Bibliography and Index.

9789386761446 • 218 (Hb) • 2023 • ₹ 995.00

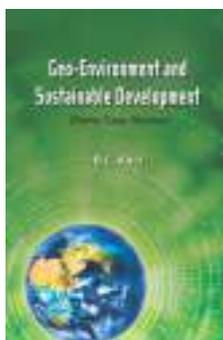


Geo-environment of Manipur

Suresh C. Rai

About the Book: This book is an attempt to provide holistic and detailed information on Geo-environment of Manipur, such as its natural resources, geology, biodiversity, wetlands and climate change, which are useful for students, government, policy planners and NGOs. The book covers a detailed study of the above-mentioned aspects of Manipur. It is divided into three parts, covering various aspects of the Geo-environment of the Manipur state. The first part reflects upon the background of Manipur, whereas the second part analyzes the natural resources of Manipur and third part deals with problem-specific case studies viz., climate trends, rainwater harvesting, wetland ecosystem, water supply and demands. The study emphasizes the fact that the Geo-environmental protection and management are of being signed to a sustainable development of Manipur.

9789388264433 • 184 (Hb) • 2023 • ₹ 899.00

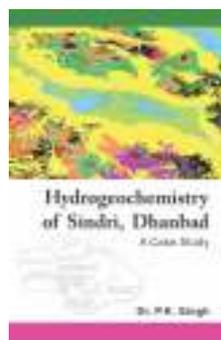


Geo-Environment and Sustainable Development (Some Case Studies)

B.L. Kaul

Contents: Preface, Acknowledgements, Introduction, Section I : Geo-environment and Sustainable Development 1. Delhi Region 2. Temporal Migration of Yamuna and Seisotectonics 3. Resources (Non-renewable) 4. Existing Landuse and Development 5. Land Use Mismatch and Problems 6. Geo-environment in Solution to Present Day Problems 7. Ghaziabad-Noida Area 8. Resource 9. Geo-environment in Solution to Development and Urbanisation 10. Hazards 11. Socio-economic Development and Green House Impact 12. Bulandshahar-Khurja Area 13. Geo-environmental Evaluation 14. Geo-environmental Hazards 15. Land Suitability/Capability 16. Meerut Area 17. Geo-environment and Development 18. Hazards and Possible Mitigation 19. Geo-environment in Solution to Urbano-Industrial Problems Delhi-NCR (UP) Region-(A Summary) 20. Indira Gandhi Canal Area, Hanumangarh District, Rajasthan 21. Resources 22. Geo-environmental Evaluation and Hazards Section II: Geo-environment and Tourism Parts of Baramula District (J & K) 23. Gulmarg Tourist Area, Baramula District (Kashmir) 24. Wular Lake Area Baramula District, Kashmir Section III: Geo-environment and River Ecology 25. pH Sensitive Lithologies and River Ecology; Parts of Baramula District (J&K) Case Studies, References

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Hydrogeochemistry of Sindri, Dhanbad A Case Study

Dr. P.K. Singh

Contents: 1. Introduction 2. General Features 3. Geology and Petrography 4. Methods and Techniques 5. Hydrogeology 6. Aqueous Geochemistry 7. Discussion 8. Conclusions and Recommendations, Bibliography.

9789386761804 • 126 (Hb) • 2023 • ₹ 995.00

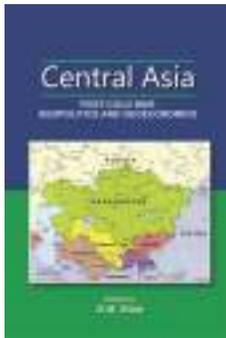


India-Russia Cultural Ties Changing Dimensions

Editor
Preeti D. Das

Contents: 1. First Images of India in Russian Mind - Prof. Elena Y. Tereshenko 2. India and Russia: Relations in the Modality of "Soft Power" - Andrei Andreev and Ivan Andreev 3. What Can India Teach Russians? - Sergei Serebriany 4. The Diminishing Return: India-Russia Relations at Crossroad - Dr. Kumar Kaustubha 5. India-Russia Cultural Ties: From Unbelievable Fantasy to Privileged Relations - Dr. Preeti D. Das 6. Prospects for the Political and Economic Partnership of the Republic of India and the Russian Federation in Modern Global Processes - Harashchenko Nataliia, Gnatiuk Nikolay, Kushnirenko Vladimir, Volskiy Alexander 7. India-Russia Political Ties in a Changing World Order - Ajaya K. Samantray 8. India-Russia Relations: Shifting from 'Strategic Partnership' to 'Special and Privileged Strategic Partnership' - Prof. Phool Badan and Dr. Vijay Pratap Gaurav 9. Economic and Socio-Political Aspects of Russia-India Relationship - Mokhov Andrey Vladimirovich and Muraveva Natalia Nikolaevna 10. Role of the Private Sector in Strengthening India-Russia Trade Relations - Manish Kumar and Pankhury Harbansh 11. India-Russia Defence Cooperation: Opportunities, Challenges and Way Forward - Col. Anajai Singh 12. India-Russia Military-Technical Cooperation: Trends and Prospects - Nikolai Baranov and Dmitry A. Nikolaev 13. The Image of India in Modern Russia: Political, Economic and Socio-Cultural Ideas - Yulia Shichanina 14. Russian Far East: The Challenges of the 21st Century - Dr. Prashant Saini, References

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Central Asia Post-Coldwar Geopolitics and Geoeconomics

Edited by
G.M. Shah

Contents: 1. Introduction 2. Geopolitics of Central Asia 3. Eurasian Economic Union: Cost and Benefit for the Central Asian States 4. Dynamics of Security in Central Asia and its Implications for the Regional Integration 5. External Powers in Central Asia 6. Geopolitical Clusters in Eurasia 7. China's Strategic Engagement with Central Asia 8. Great Game in Central Asia: An Analysis of Goals, Players and Strategies 9. New Great Game in and Uzbekistan 10. Understanding the New Great Game in Central Asia 11. Russia's Role in New Great Game in Caspian Sea Region 12. Role of United States, Russia and India in New Great Game in Central Asia 13. Central Asia in the Post-Cold War Era 14. Democratic Kazakhstan—Promoter of Peace and Security in Eurasia 15. Post-Soviet Central Asia: Role and Strategy in the Region 16. The Impact of New Great Game on Kyrgyzstan's Democratisation and Politics 17. Energy Potential of Turkmenistan: Implications for South Asia Especially India 18. India's Neighbourhood Policy: Challenges of Change 19. India's Economic Relations with Afghanistan with Special Reference to Trade and Investment 20. India and Central Asia in The Changing Dynamics of Asia 21. India's Response to New Great Game in Central Asia with Special Reference To Tajikistan 22. Good Governance, Human Rights and Globalisation 23. Post-Cold War Development Challenges of Central Asian States 24. Freedom of Press in Central Asian States: an Overview 25. Post-Soviet Kazakhstan: Politics of Identity and Inter-Ethnic Relations

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Post-Cold War Grand Strategies in Eurasia

Edited by
G.M. Shah

Contents: 1. Introduction, G.M. Shah (I). Great Power Grand Strategies in Eurasia 2. Can Russia Become a Dominant Player in the Great Game in Central Asia? R.G. Gidadhubi 3. China's Maritime Strategy in the Indian Ocean and India's Indo-Pacific Response, Gurpreet S. Khurana 4. Waxing and Waning Interests of United States in Central Asia: Revival of Traditional Geopolitics in Central Asia, Anjali Debas Sarawat 5. Locating Tajikistan in New Great Game and its Implications for India, Lal Ji Pal 6. China's One Belt, One Road Initiative in Central Asia and its Impact on Tajik Economy, Imran 7. Land Degradation in Tajikistan: Response of International Organisations in the Post-Cold War Period, Md. Shahbaz Alam (II). Regional Power Grand Strategies in Eurasia 8. The Convergence of Iranian and Russian Geopolitical Visions in Eurasia: Opportunities and Challenges for India, Deepika Saraswat 9. Reimagining South Asia in the Post-Cold War Regional Order, Gull Mohamad Wani 10. Analysing India's Connect Central Asia Policy, Matand Jha 11. Central Asian Republics and India's Energy Interest, Yaduraj Singh Foujdar 12. India's Strategies to Gain Foothold in Central Asia, Tarique Ahmad Lone 13. Post-Cold War Engagement of Turkey with Uzbekistan, Tarique Anwar (III). Central Asian Response to Grand Strategies in Eurasia 14. Central Asia: Soviet Legacy, Changing Alignments and Emerging Scenario, N.A. Baba 15. River Water Politics in Central Asia, P.L. Dash 16. Grand Strategies in Eurasia and Multi-Vector Foreign Policy of Central Asian States with Special Reference to Kazakhstan, G.M. Shah 17. Geopolitics of Oil and Gas in Central Asia: Implications and Prospects for India, Vijay Kumar Bhatia 18. Turkmenistan and its Connectivity Initiatives: Implications for the Region, Kamala Kumari

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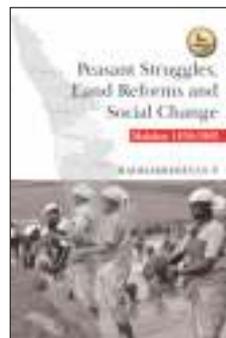


Elephant on the Silk Road Sectors of Promise for India and Central Asia

Pankaj Tripathi
Sunil Kumar

About the Book: In terms of its strategic importance, Central Asia punches much above its weight. Not only is it in India's 'extended neighbourhood', with a congruent security outlook, but given the uncertain situation in Afghanistan, strong ties with the Central Asian States (CAS) would be an asset in navigating India's interests in Afghanistan, and elsewhere. The adversarial nature of Sino-India relation coming into sharper focus in recent times gives the region an added importance. A look at the various dimensions of the relationship suggests that strengthening economic ties could be an effective way of securing India's interests in the region. The key question the book tries to address is: what are the ways in which the economic potential between India and CAS could be more fully realised? It looks at areas of convergence in economic ties through an assessment of key sectors. It also attempts to analyse the bugbear of India-CAS trading ties — connectivity. The sector wise analysis is based on inferences drawn from trade figures, developmental trends, and evolving competencies. Interactions with entities engaged in economic activities on the ground have also been a basis of assessment.

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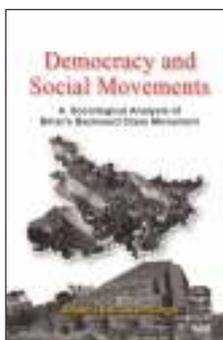


Peasant Struggles, Land Reforms and Social Change Malabar 1836-1982 2/Ed

P Radhakrishnan

Contents: 1. Introduction; 2. Land and Society in Pre-British Malabar; 3. Peasant Struggles and Land Reforms, 1836-1956; 4. Peasant Struggles and Land Reforms, 1957-70; 5. Implementation of Land Reforms, 1970-81; 6. Land Reforms and Changes in Land System, 1970-79; 7. Land Reforms and Social Change, 1970-79; 8. Conclusion; References; Index.

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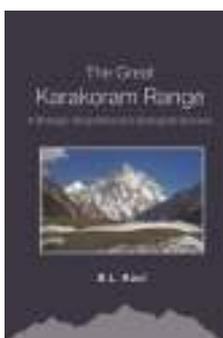
Democracy and Social Movements

A Sociological Analysis of Bihar's Backward Class Movement

Shashi Bhushan Singh

Contents: Introduction 1. Locating the Social: An Outline of Social Structure 2. The Democratic Movement: Coming of Backward Class Movement 3. How the Dominants Fought?: Caste Dynamics in Naxalite Movement 4. Between Naxalism and Democracy: SCs Struggle for Liberation 5. What happened to the MBC: Story of Persistent Marginalization 6. Backward Classes and New Social Order: End of Movement Persistence of Sentiment, Conclusions: Social Structure and Social Movements

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The Great Karakoram Range

A Strategic Geopolitical and Geological Scenario

B.L. Kaul

Contents: Preface, Acknowledgements, 1. Introduction, Section I Geopolitical Scenario, 2. Geopolitical Scenario 3. Gilgit – Balistan Region 4. Hunza – Nagar Areas 5. Siachen Glacier Area 6. Lesser Karakoram – Saltoro Range 7. Skardu Area 8. Karakoram Highway/China – Pakistan Economic Corridor 9. Geopolitical and Strategic Ramifications, Section II Geological Scenario Eastern Karakoram (India) 10. Tectono – Stratigraphy 11. Geological Structure 12. Discussion 13. Conclusion and Important Inferences, References.

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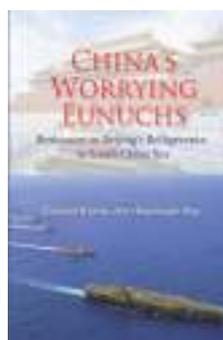


Indian Government and Politics

Rakesh Ranjan

Contents: 1. Indian constitution – Cornerstone of a Nation 2. Key Features of Indian Constitution 3. Secondary features of Indian Constitution 4. Fundamental rights, duties and the directive principles of state policy 5. Organizational structure of Union Government of India

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China's Worrying Eunuchs

Resistance to Beijing's Belligerence in the South China Sea

Editors

Gautam Kumar Jha
Saumyajit Ray

Contents: 1. The Philippines Claims of Sovereignty over South China Sea 2. A New Imperial China: The Hague Ruling and the South China Sea dispute 3. Differing perspectives on the Looming Crisis in the South China Sea: Belligerence or Tempest in a Teapot 4. Sino-US Rivalry in South China Sea: A New Normal 5. South China Sea Imbroglio: Indias Interests at Stake 6. Natuna Islands: China Drags Indonesia to South China Sea 7. The South China Sea Dispute: Appraising ASEANs Response 8. South China Sea Dispute and Sino-ASEAN Relations: Implications for India 9. Malaysias South China Sea Policy: Still Walking the Tightrope 10. Maritime Security in the Malacca Straits: Challenges and Prospects 11. Vietnam and the South China Sea: Two-Fold Strategy.

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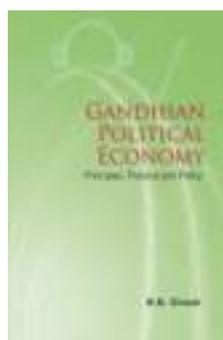


Politics

Manan Dwivedi
Saket Bihari

Contents: 1. What is Politics 2. All About: Political Ideologies 3. Theories of State 4. Democracy and Legitimacy 5. Regimes 6. Nation and Nationalism 7. Political Economy and Globalization 8. Politics, Society and Identity 9. Political Culture and Media 10. Elections and Representations 11. Political Parties and the Party System 12. Groups, Interests and Politics 13. Constitution, Law and Judges 14. Political Executives and Leadership 15. State and Bureaucracy 16. Security: Domestic and International 17. World Order and Governance 18. Global Governance

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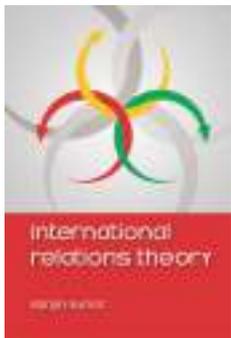
Gandhian Political Economy

Principles, Practice and Policy

B.N. Ghosh

Contents: 1. Introduction 2. The Making of Gandhian Political Economy 3. The Ontological Principles of Gandhian Political Economy 4. Methodological Structuration 5. Exploitation, Inequalities and Distributive Justice 6. Conflict and Conflict Resolution 7. State, Power and Policy 8. Development and Underdevelopment 9. Towards an Appraisal

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International Relations Theory

Sanjay Kumar

Contents: Preface 1. Global Formation: Structures of the World-economy 2. Global Competitiveness 3. Nature, Raw Materials, and Political Economy 4. Energy, Capitalism and World Order 5. Multinationals, FDI, Development and the New World 6. Global Political Economy and the Wealth of Nations 7. Globalization and the Distribution of Wealth 8. Money, Finance and Political Economy Bibliography Index

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Comparative Government and Politics

Sadhana Thakur

Contents: Preface 1. Comparative Politics: Rationality, Culture and Structure 2. Liberal Internationalism and Decline of the States 3. Contemporary Political Sociology: Globalization, Politics and Power 4. International Politics: Empires, Systems and States 5. International and Regional Security in a Multi-Polar World 6. Polarity, Balance of Power and Stability in International Relations 7. International Politics: Power and Purpose in Global Affairs, Bibliography, Index

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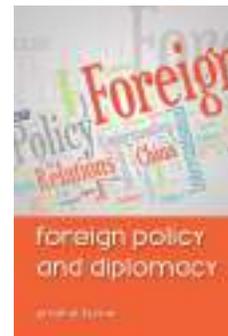


Political Analysis and Research Methods

Ram Lakhan Mandal

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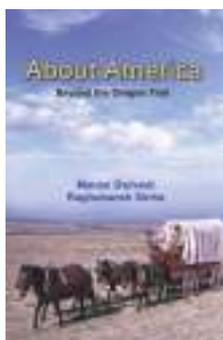


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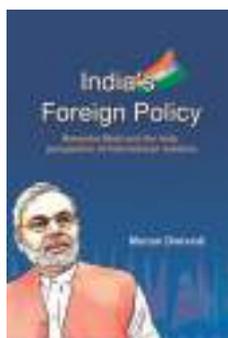


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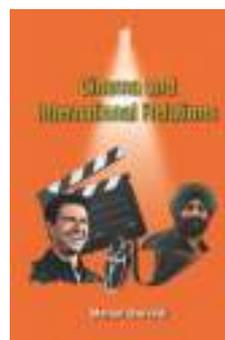


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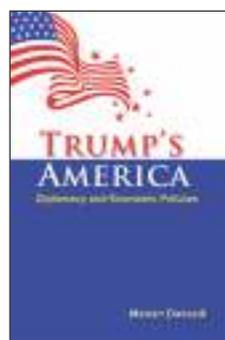


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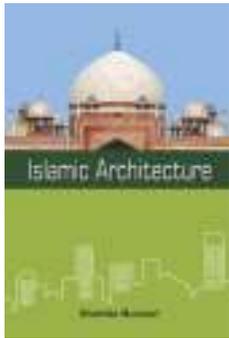
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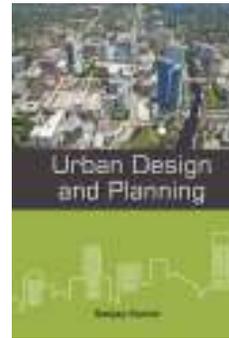


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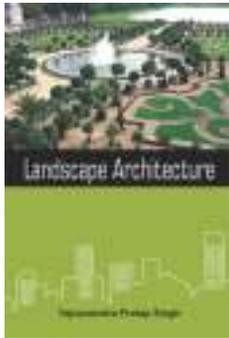


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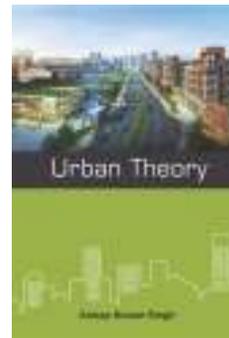


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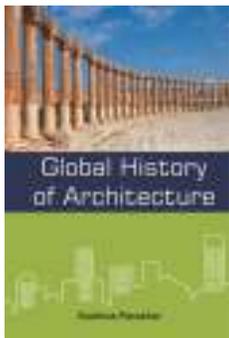


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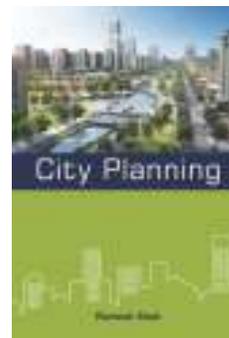


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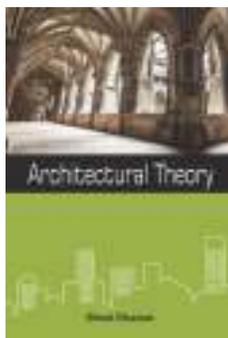


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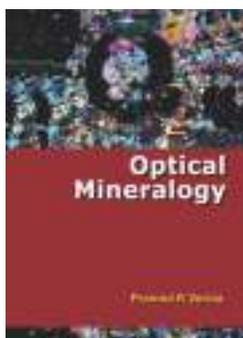


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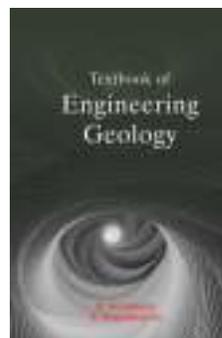


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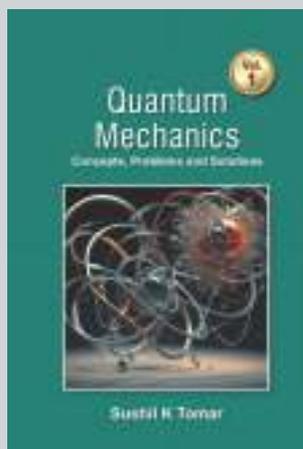
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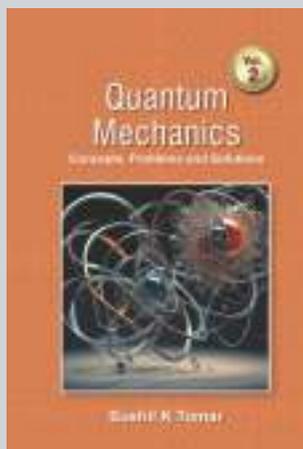
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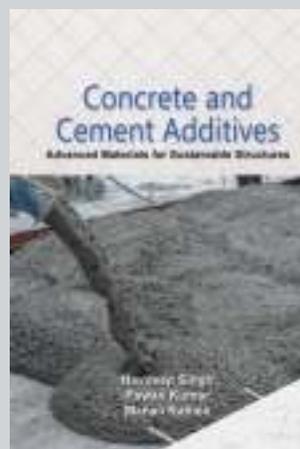
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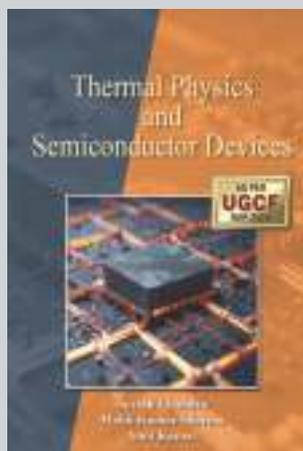
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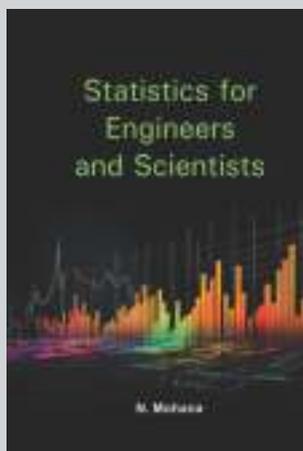
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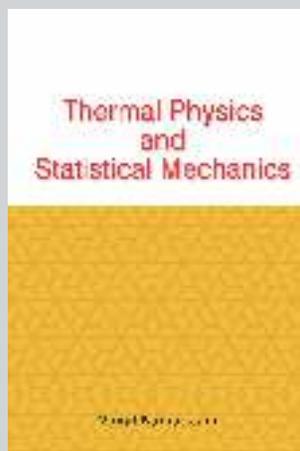
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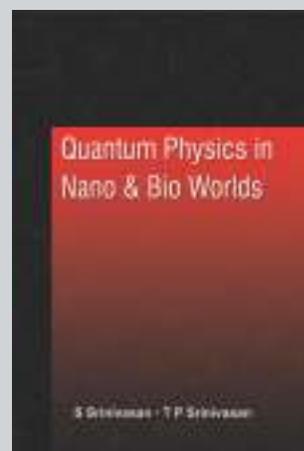
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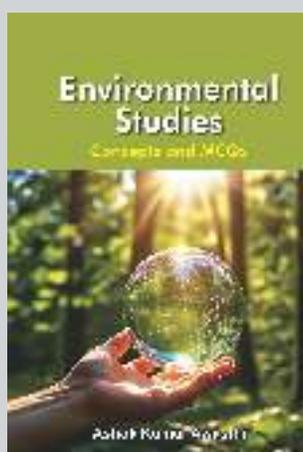
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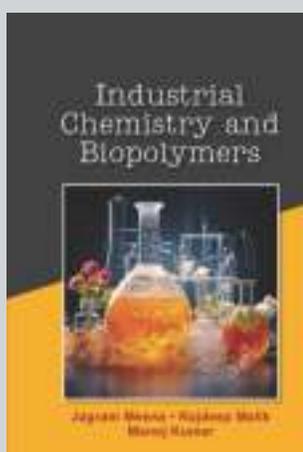
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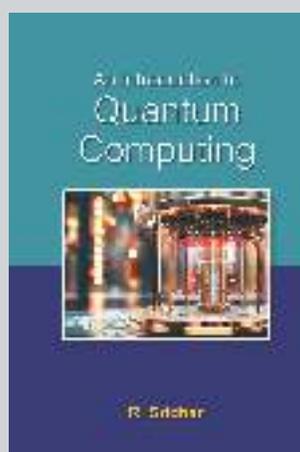
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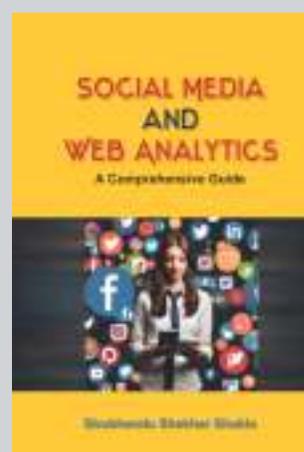
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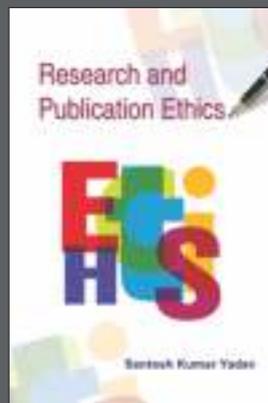
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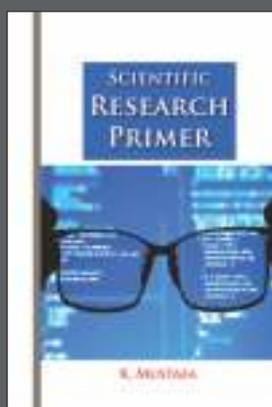
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