



# Computer Science & Engineering 2025

ARTIFICIAL INTELLIGENCE • INFORMATION TECHNOLOGY • MECHANICAL • AEROSPACE ENGINEERING  
CHEMICAL ENGINEERING • CIVIL ENGINEERING/ ELECTRONICS • ELECTRICAL ENGINEERING

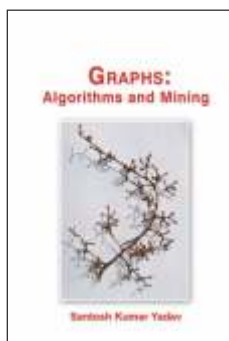
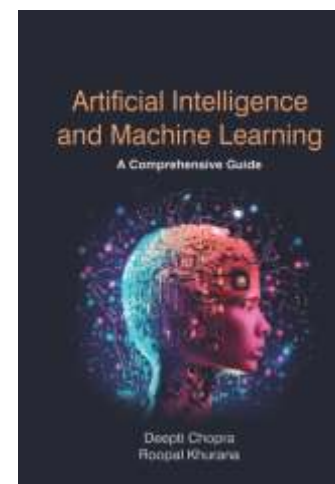
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A Comprehensive Guide

Deepti Chopra, Roopal Khurana

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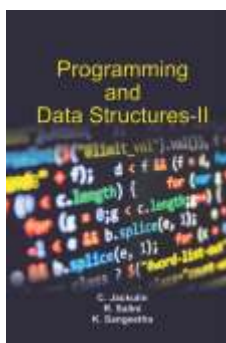


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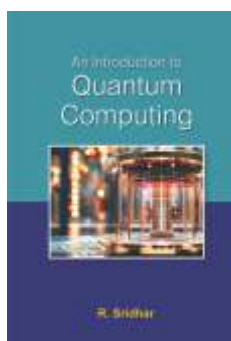


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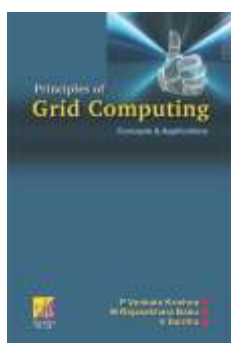


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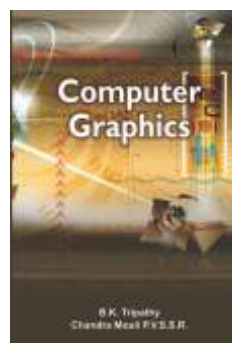


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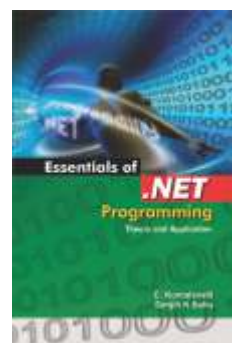


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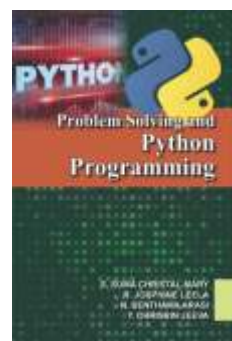


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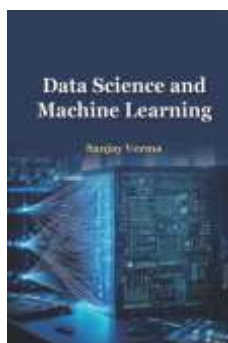


## Problem Solving and Python Programming

S. Suma Christal Mary  
R. Josphine Leela  
N. Senthamilarsi  
Y. Chrisbin Jeeva

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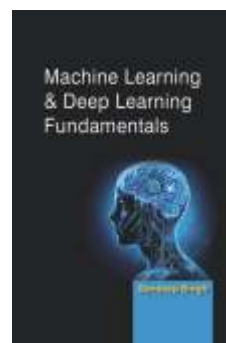
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Sanjay Verma

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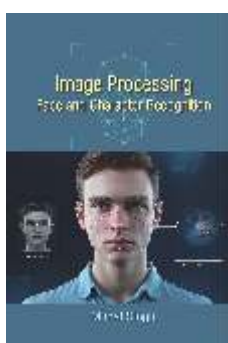
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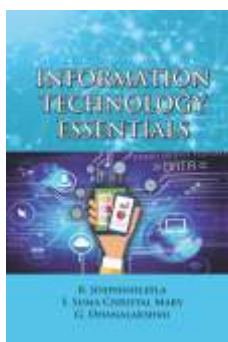
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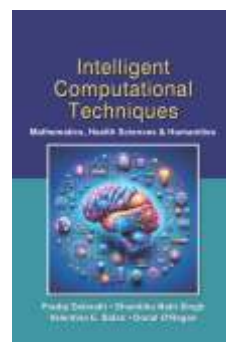


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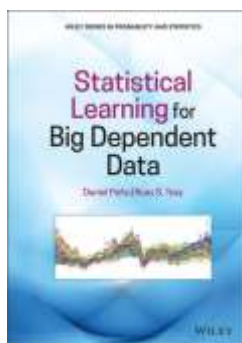
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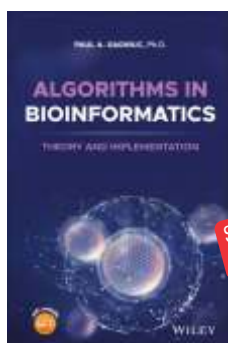


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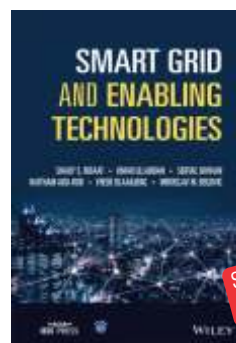
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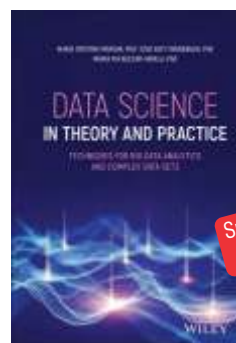
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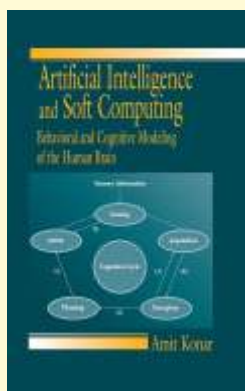
AI, IoT, and 5G

Abdulrahman Yarali

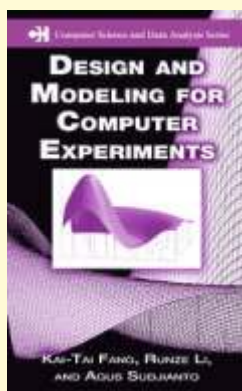
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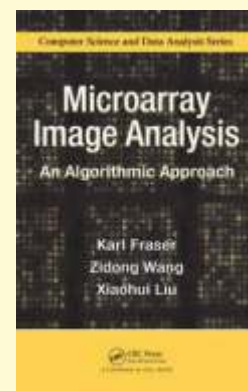
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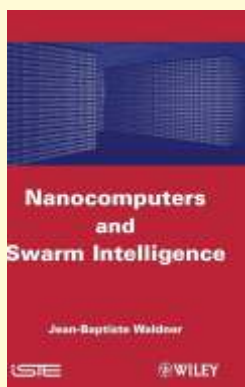
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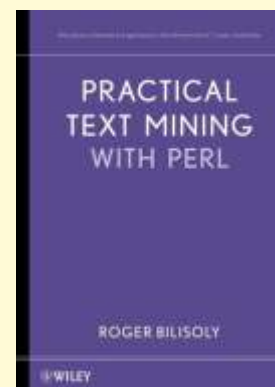
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S. Kevin

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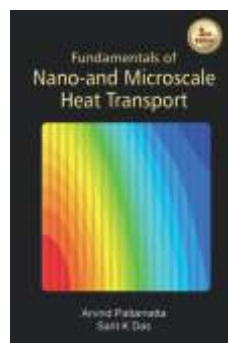


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Sawan S. Sinha

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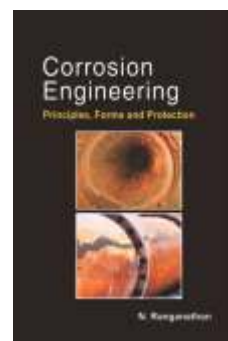


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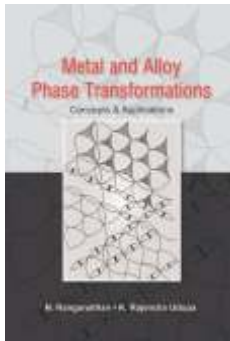
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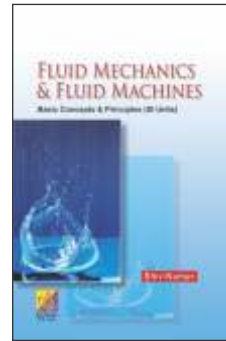
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2/Ed

S.P. Venkateshan  
Prasanna Swaminathan

**Contents:** Preface, Acknowledgments, 1 Preliminaries, 2 Solution of linear equations, 3 Computation of eigenvalues, 4 Solution of algebraic equations, 5 Interpolation, 6 Interpolation in two and three dimensions, 7 Regression or curve fitting, 8 Numerical Differentiation, 9 Numerical Integration, 10 Initial value problems, 11 Boundary value problems (ODE), 12 Introduction to PDEs, 13 Laplace and Poisson equations, 14 Advection and diffusion equations, 15 Wave equation, 16 Application Examples, Epilogue, Beyond the book - the way ahead, Researchers developing their own code, Users of commercial code, Where does one look for help?, Free resources, Licensed resources, Index.

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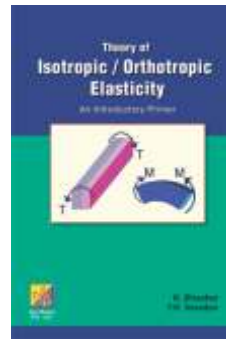
## Fluid Mechanics & Fluid Machines

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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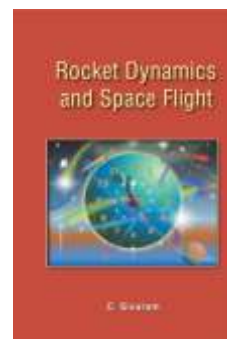
## Theory of Isotropic/Orthotropic Elasticity

An Introductory Primer

K. Bhaskar  
T.K. Varadan

**Contents:** Preface 1. Introduction and Mathematical Framework 2. Plane Problems in Cartesian Coordinates 3. Plane Problems in Polar Coordinates 4. Torsion of Non-circular Sections 5. Some Other Problems of Interest, Appendix, Index

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## Rocket Dynamics and Space Flight

C. Sivaram

**Contents:** Preface 1. Brief historical Introduction 2. Basics of Rocket dynamics 3. Lunar and Near Space Flight 4. Interplanetary Flight 5. Relativistic Space Flights 6. Interstellar Flight 7. Re-entry into a Planetary Atmosphere 8. Missiles 9. Artificial Satellites 10. Rocketry and Spaceflight: a historical Asian perspective, Bibliography.

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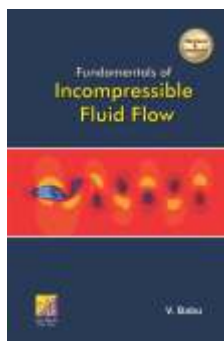
## Mechanical Measurements

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S.P. Venkateshan

**Contents:** Preface, Acknowledge, Nomenclature, 1. Measurements, Error 2. Measurements of Temperature, Heat Flux and Heat Transfer Coefficient 3. Measurement of Pressure, Fluid velocity, Volume flow rate, stagnation and Bulk mean temperature 4. Thermo-physical properties, Radiation properties of surface, Gas Concentration, force/Acceleration, torque and power 5. Data Manipulation and Examples from laboratory practice

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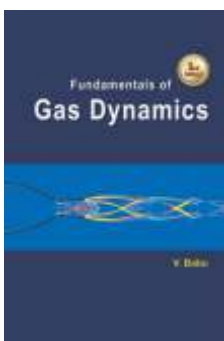
## Fundamentals of Incompressible Fluid Flow

Revised & Updated

V. Babu

**Contents:** 1. Introduction, 2. Basic Concepts in Incompressible Flows, 3. The Incompressible Navier-Stokes Equations, 4. Solutions to the Incompressible Navier-Stokes Equations, 5. Potential Flows, 6. Laminar Boundary Layer Theory, 7. Analytical Solutions to the Incompressible Navier-Stokes Equations, 8. Turbulent Flows, 9. Turbulent Internal Flows, 10. Turbulent External Flows

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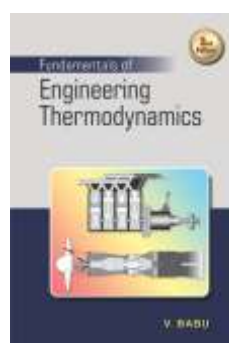
## Fundamentals of Gas Dynamics

2/Ed

V. Babu

**Contents:** Foreword • Preface • Introduction • One Dimensional Flows – Basics • Normal Shock Waves • Flow with Heat Addition- Rayleigh Flow • Flow with Friction - Fanno Flow • Quasi One Dimensional Flows • Oblique Shock Waves • Prandtl Meyer Flow • Suggested Reading • Index.

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## Fundamentals of Engineering Thermodynamics

2/Ed

V. Babu  
IIT, Madras

**Contents:** 1 Introduction 2 Basic Concepts 3 Work and Heat 4 First Law of Thermodynamics 5 Properties of Pure Substances 6 First Law Analysis of Systems 7 First Law Analysis of Control Volumes 8 Second Law of Thermodynamics 9 Entropy 10 Exergy 11 Thermodynamic Cycles 12 Psychrometry 13 Combustion Thermodynamics 14 Gas Phase Chemical Equilibrium 15 Compressible Flow in Nozzles, A Use of air tables, Index

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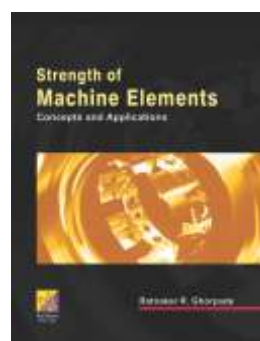
## Design of Jigs & Fixtures and Press Tools

2/Ed

K. Venkataraman

**Contents:** PART I—JIGS AND FIXTURES 1. Introduction to Jigs and Fixtures 2. Design of Locators 3. Design of Clamps 4. Drilling Jigs 5. Design of Milling Fixtures 6. Other Types of Fixtures, Design Exercises for Jigs and Fixtures, Worked Examples for Jigs and Fixtures, Appendix A: Metal Cutting Tools, Appendix B: Fits and Tolerances, Appendix C: Suggested Questions and Answers, PART II—PRESS TOOLS 1. Introduction to Presses and Auxiliary Equipment 2. Sheet Metal Forming Processes 3. Introduction to Press Tools, 4. Introduction to the Design of Blanking, Piercing, Progressive and Compound Dies, 5. Bending, Drawing and Forming Dies, Design Exercises for Press Tools, Appendix A: Properties of Materials, Appendix B: Drawing Speeds and Lubricants, Appendix C: Press Tools—Suggested Questions and Answers, References, Index

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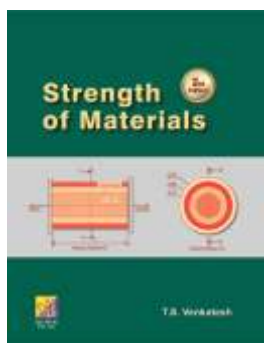
## Strength of Machine Elements

Concepts and Applications

Ratnakar R. Ghorpade

**Contents:** Simple Stresses And Strains, Temperature Stresses, Strain Energy, Shear Force And Bending Moment Diagrams, Slope And Deflection Of Beams, Principal Stresses & Strains, Theories Of Elastic Failure

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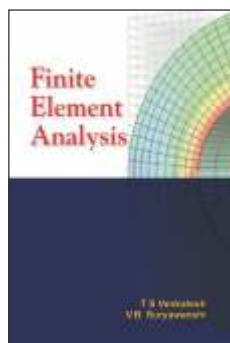
## Strength of Materials

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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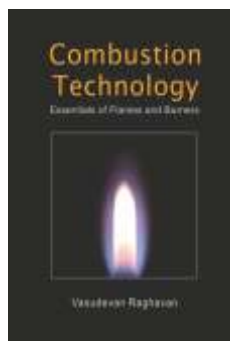


## Finite Element Analysis

T.S. Venkatesh  
V.B. Suryawanshi

**Contents:** 1. Introduction to Finite Element Method 2. Variational and Weighted Residual Method 3. Basics of Finite Element Analysis 4. Finite Element Analysis of 1D Problems 5. Trusses 6. Heat Transfer Analysis 7. Beam 8. Shape Function 9. Two Dimensional Elements 10. 2D Rectangular and Quadrilateral Element 11. Vibration Analysis 12. Finite Element Analysis Using ANSYS Software, Appendix

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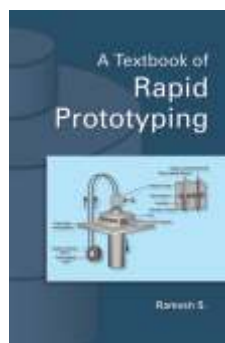
## Combustion Technology

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

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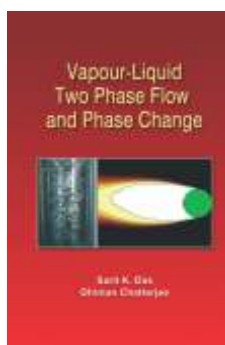


## A Textbook of Rapid Prototyping

Ramesh S.

**Contents:** 1. Introduction to Rapid Prototyping 2. Stereo Lithography 3. Selective Laser Sintering and Fused Deposition Modelling 4. Solid Ground Curing 5. Concept Modelers 6. Rapid Tooling 7. Softwares for Rapid Prototyping 8. Rapid Manufacturing Process Optimization, Question Bank and References

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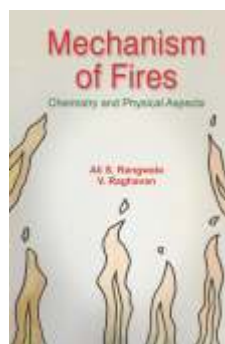


## Vapour-Liquid Two Phase Flow and Phase Change

Sarit K Das  
Dhiman Chatterjee

**Contents:** 1. Introduction to Two Phase Flow low Patterns and Maps 2. Two Phase Flow ressure Drop and Flow Friction 3. Thermodynamics of Phase Change 4. Nucleation and Bubble Dynamics 5. Cavitation 6 Types of Boiling the Pool Boiling Curve 7. Heat Transfer Mechanisms and Correlations in Nucleate Pool Boiling 8. Pool Boiling Crisis, Critical Heat Flux and Film Boiling 9. Flow Boiling Heat Transfer 10. Flow Boiling Crisis and Post Dryout Heat Transfer 11. Condensation: Nusselt Theory and External Condensation 12. In-Tube and Dropwise Condensation 13. Boiling and Condensation of Mixtures 14. Numerical Modelling of Boiling 15. Equipment for Boiling, Evaporation and Condensation 16. Boiling in Mini and Micro Channels

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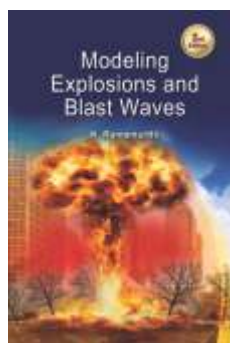
## Mechanism of Fires

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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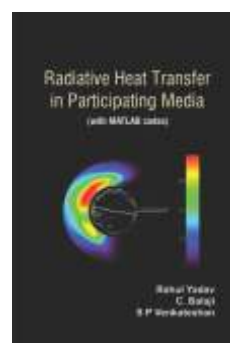
## Modeling Explosions and Blast Waves

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.

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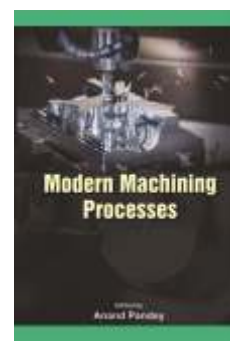
## Ignition Sources

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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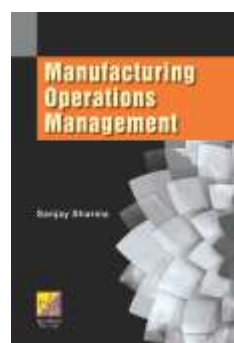


## Modern Machining Processes

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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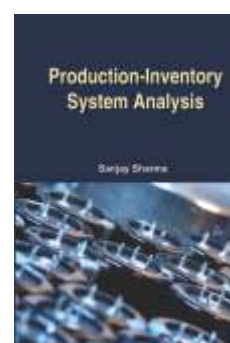


## Manufacturing Operations Management

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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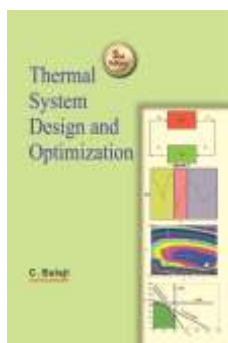
## Production-Inventory System Analysis

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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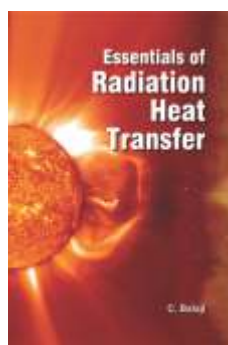
## Thermal System Design and Optimization

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

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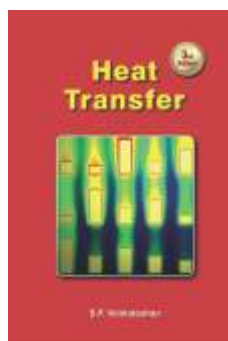


## Essentials of Radiation Heat Transfer

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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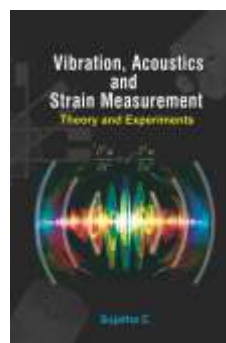
## Heat Transfer

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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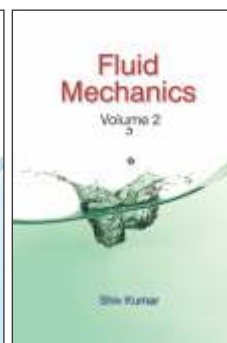
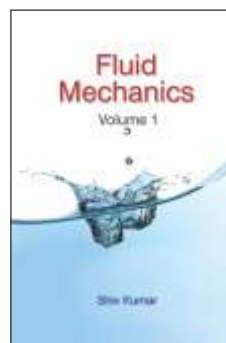
## Vibration, Acoustics and Strain Measurement

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

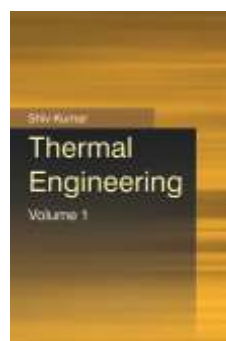
Volume 1 & 2

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

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## Thermal Engineering

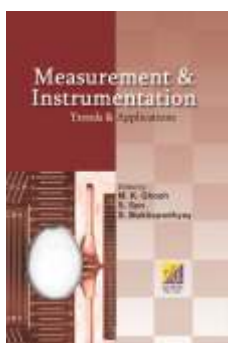
Vol. 1 & 2

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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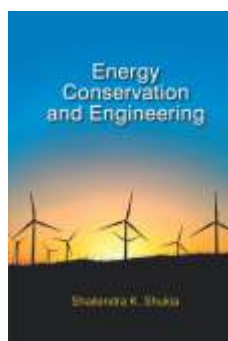


## Measurement and Instrumentation Trends and Applications

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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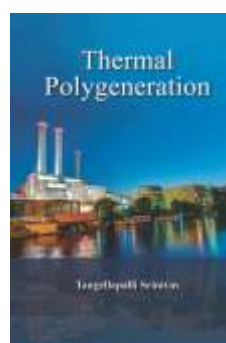


## Prime Movers and Fluid Machines

**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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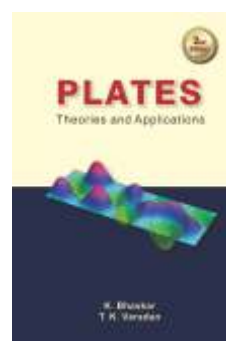


## Thermal Polygeneration

**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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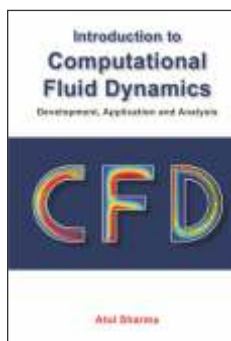


## Plates Theories and Applications 2/Ed

**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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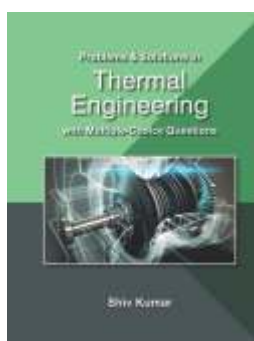
## Introduction to Computational Fluid Dynamics

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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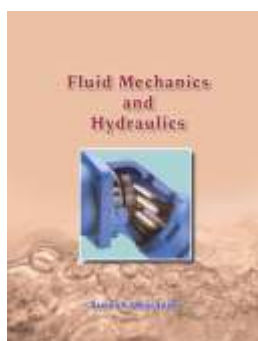
## Problems & Solutions in Thermal Engineering

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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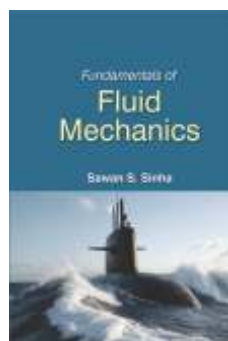


## Fluid Mechanics and Hydraulics

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

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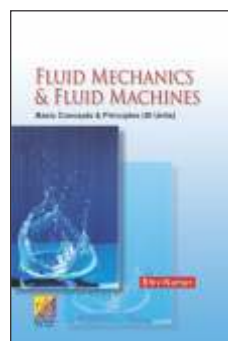


## Fundamentals of Fluid Mechanics

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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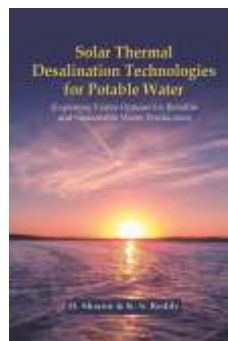
## Fluid Mechanics & Fluid Machines

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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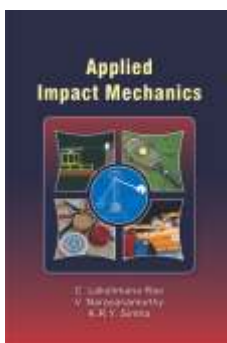


## Maintenance Management and Engineering

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

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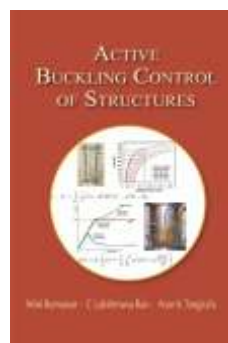
## Applied Impact Mechanics

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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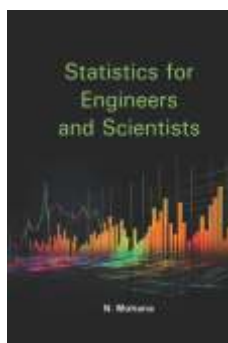


## Active Buckling Control of Structures

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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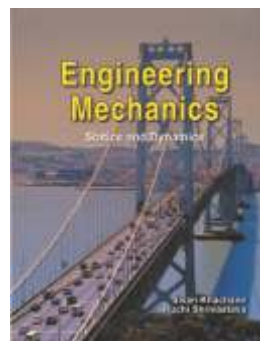


## Statistics for Engineers and Scientists

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

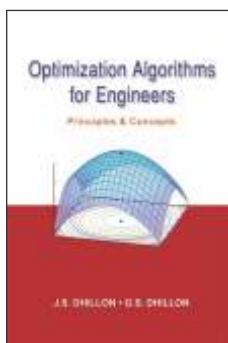
Statics and Dynamics

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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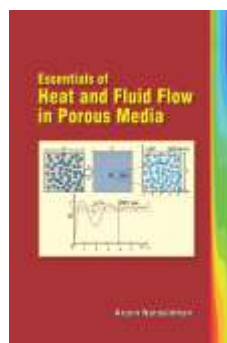
## Optimization Algorithms for Engineers

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

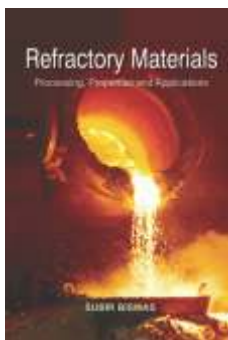
Arunn Narasimhan

**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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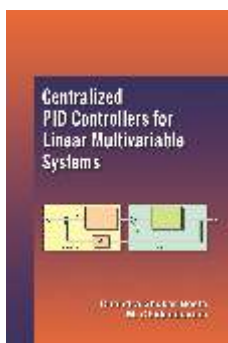


## Basics of Mechanical Engineering

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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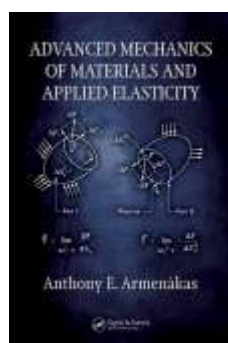


## Centralized PID Controllers for Linear Multivariable Systems

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 / RGA 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

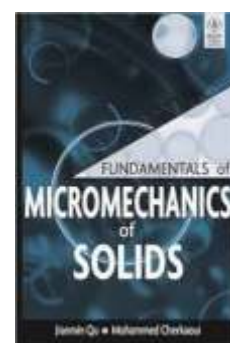
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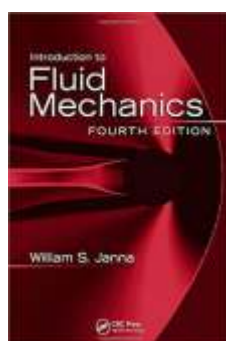
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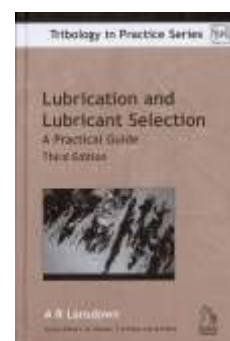
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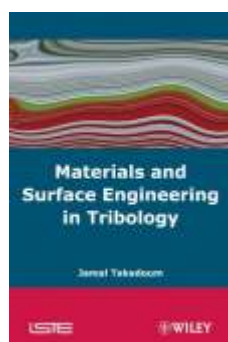
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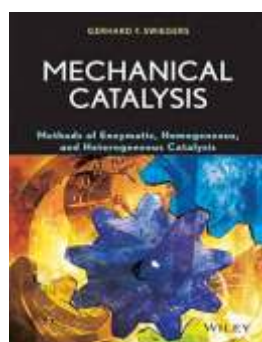
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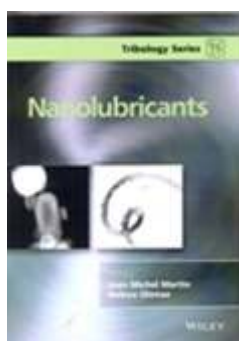
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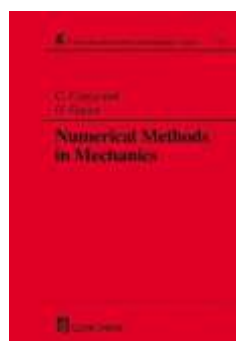
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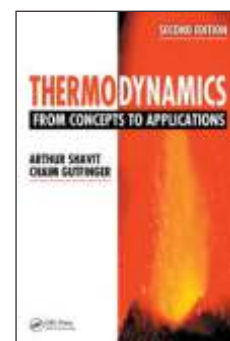
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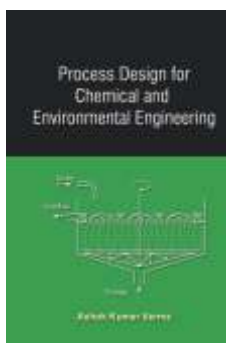
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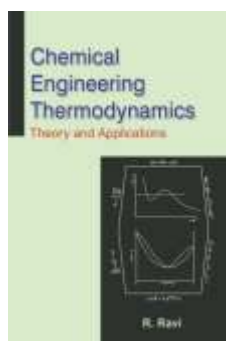


## Process Design For Chemical and Environmental Engineering

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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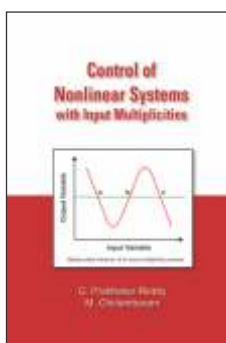


## Chemical Engineering Thermodynamics Theory & Applications

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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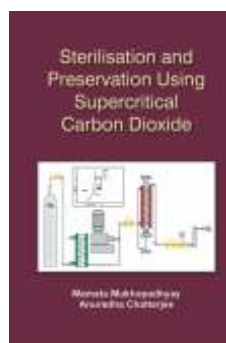


## Control of Nonlinear Systems with Input Multiplicities

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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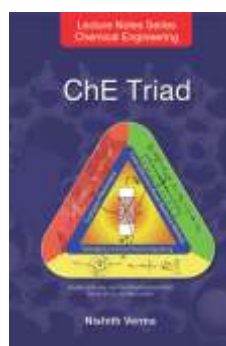


## Sterilisation and Preservation Using Supercritical Carbon Dioxide

Mamta Mukhopadhyay  
Anuradha Chatterjee

**Contents:** 1. Introduction 2. Different Types of Reducing Agents 3. Reduction of Specific Types of Organic Compounds 4. Hydrogenolysis 5. Enzymatic or Microbial Reduction 6. Some Reductions under Benign Conditions

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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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## Fundamentals of Turbulence and its Modeling

Sawan S. Sinha

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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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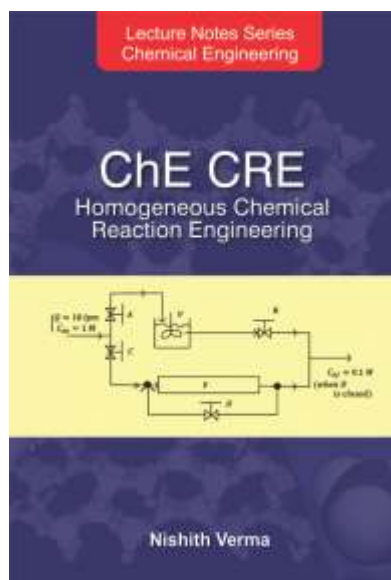
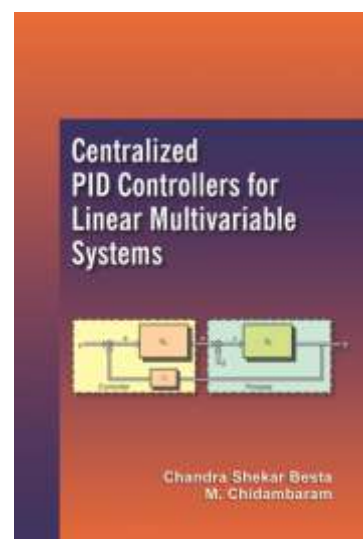
## Centralized PID Controllers for Linear Multivariable Systems

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*

9788119662548 • 300 (Hb) • 2025 • ₹ 1995.00



## 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)

9788197888694 • 218 (Hb) • 2025 • ₹ 3,000.00



## Strength of Materials

A Concise Textbook  
2/Ed

K. Bhaskar  
T.K. Varadan

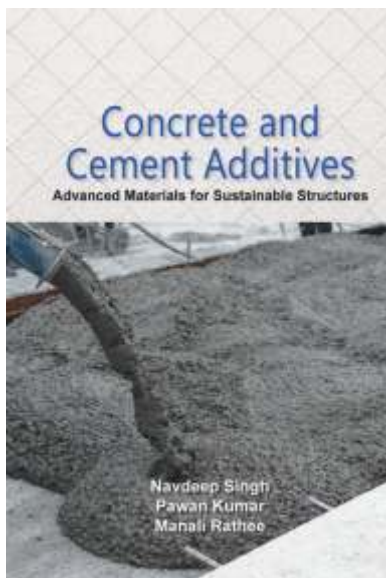
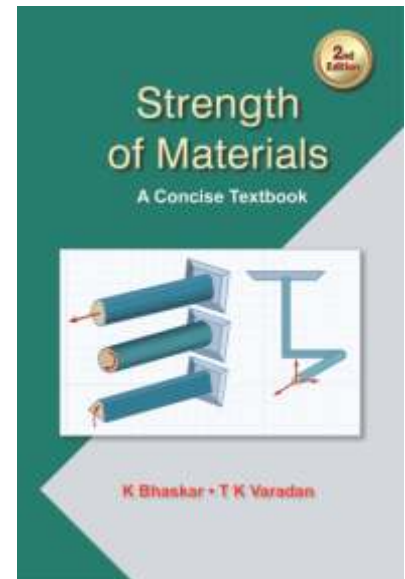
### About the Book

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

9788197654688 • 180 (Hb) • 2025 • ₹ 995.00



## Concrete and Cement Additives

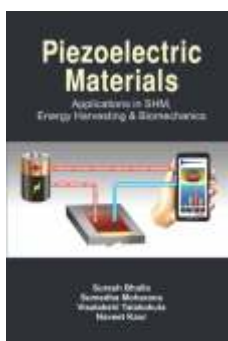
Advanced Materials for Sustainable Structures

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

9788197531224 • 244 (Hb) • 2025 • ₹ 1995.00



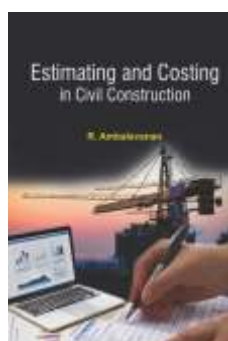
## Piezoelectric Materials

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.

9789385462467 • 288 (Hb) • 2025 • ₹ 2295.00



## Estimating and Costing in Civil Construction

R. Ambalavanan

**Contents:** Preparation and Presentation of Estimates, Principles and Practice of Quantity Estimating, Rate Analysis and Costing, Illustrative worked out examples, Contracts and Specifications, Approximate Estimates, Principles and Practice of Valuation, Standard Data, Tutorial problems

9789390658633 • 304 (Hb) • 2025 • ₹ 1995.00

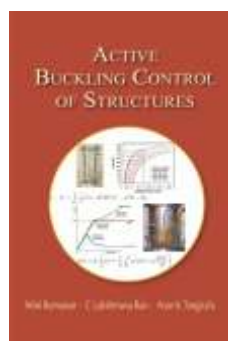


## Green Building Technologies

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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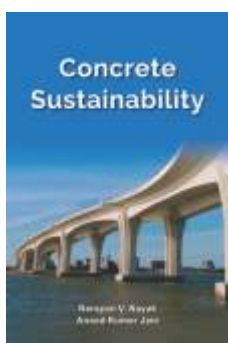


## Active Buckling Control of Structures

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

9789390658503 • 266 (Hb) • 2025 • ₹ 1995.00



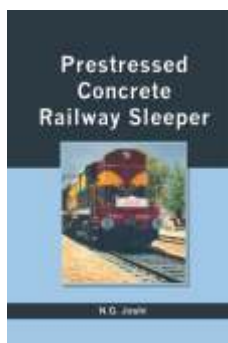
## Concrete Sustainability

Narayan V. Nayak  
Anand Kumar Jain

**Contents:** 1. Climate Change – A Global Challenge Before Mankind 2. Use of Supplementary Cementing Materials for Concrete Sustainability 3. Effect of Water and Water Binder Ratio on Concrete Sustainability 4. Relationship between Concrete Sustainability and Curing 5. Chemical Admixtures and Sustainability of Concrete 6. Sustainability and Aggregates Derived from the Industrial and Construction Demolition Waste 7. Sustainability and Concrete Cover to Reinforcement 8. High Strength, High Performance Concrete and Sustainability 9. Temperature Control of Concrete at Early Ages for Sustainability 10. Repair and Maintenance of Concrete Structures and Sustainability 11. Performance Based Specification for Sustainable Concrete 12. Use of Life Cycle Cost Analysis for Enhancing Sustainability of Concrete Structures 13. Modern Trends in Achieving Sustainability in Cementitious Materials and Concrete 14. Miscellaneous Issues Relating to Sustainability of Concrete.

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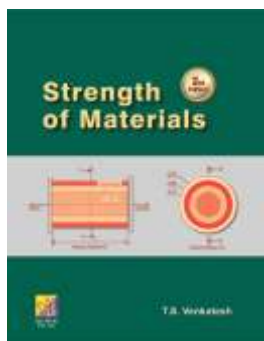


## Prestressed Concrete Railway Sleeper

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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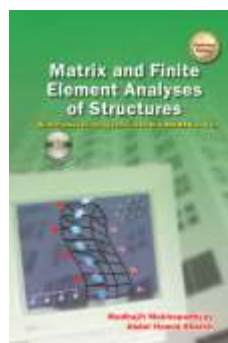
## Green Structures

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) • 2025 • ₹ 2195.00



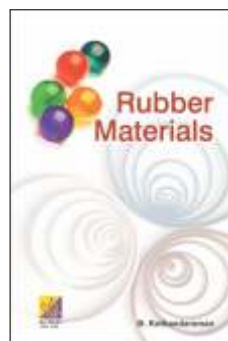
## Matrix and Finite Element Analyses of Structures

(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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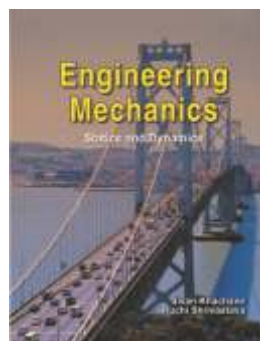


## Rubber Materials

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) • 2025 • ₹ 895.00



## 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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## 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

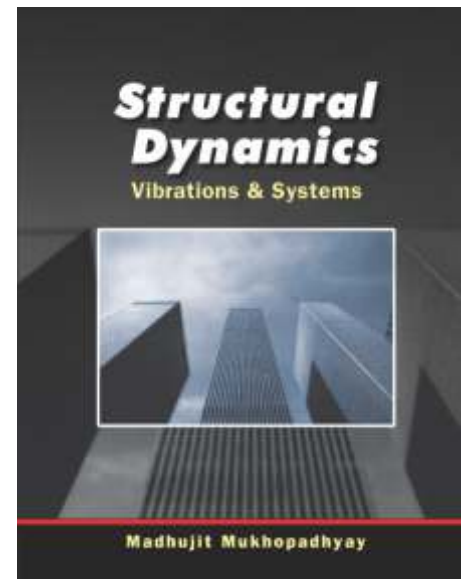
Vibrations & Systems

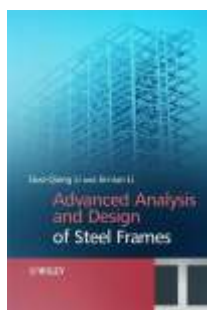
Madhujit Mukhopadhyay

### Contents

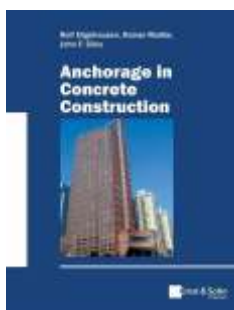
Preface • Introduction • Free Vibration of Single Degree of Freedom System • Forced Vibration of Single Degree of Freedom System • Numerical Methods In Structural Analysis : Applied to SDF Systems • Vibration of Two Degrees of Freedom System • Free Vibration of Multiple Degrees of Freedom System • Forced Vibration Analysis of Multiple Degrees of Freedom System • Free Vibration Analysis of Continuous Systems • Forced Vibration of Continuous Systems • Dynamic Direct Stiffness Method • Vibration of Ship and Aircraft as A Beam • Finite Element Method in Vibration Analysis • Finite Difference Method for The Vibration Analysis of Beams and Plates • Nonlinear Vibration • Random Vibrations • Computer Program in Vibration Analysis • The Stiffness Matrix

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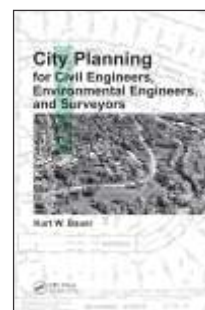




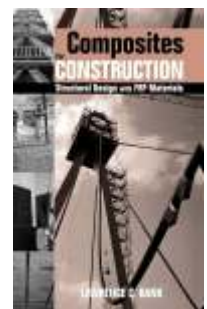
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9788126548316 • 2014 • ₹ 4995.00



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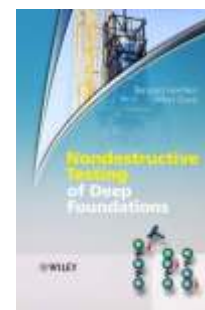
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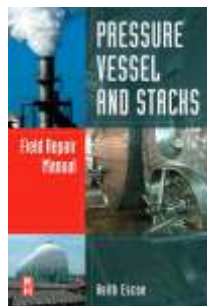
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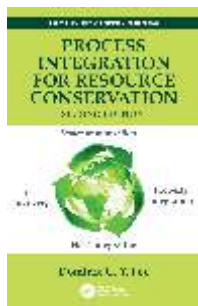
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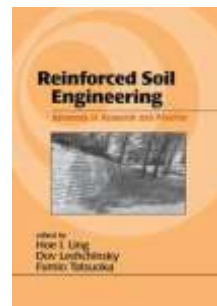
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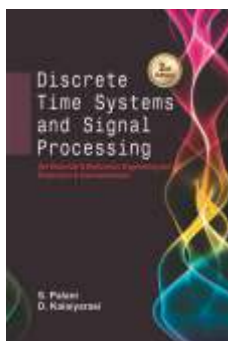
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ISBN	Title	Author	₹ Price	Year	Binding	Publisher
9789390658503	Active Buckling Control of Structures	Ramanan	1995	2025	HB	ANE
9789386761415	Architectural Theory	Dhawan	1995	2025	HB	ANE
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9788119160556	Matrix and Finite Element Analyses of Structure	Mukhopadhyay	2495	2025	HB	ANE
9789385462467	Piezoelectric Materials : Applications In Shm, Energy Harvesting & Biomechanics	Bhalla	1995	2025	HB	ANE
9789390658190	Strength of Materials, 2/Ed	T.S. Venkatesh	1995	2025	HB	ANE
9788197654602	Thermal Physics and Semiconductor Devices	Suresh Chandra	2495	2025	HB	ANE
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9789386761385	Urban Design and Planning	Kumar	1995	2025	HB	ANE
9789386761378	Urban Theory	A.K. Singh	1995	2025	HB	ANE
9789386761026	Urbanisation : Sources, Stressors and Responses (Four Volume Set)	Nayak	25000	2025	HB	ANE
9789386761002	Urbanization In India : Issues & Challenges	Sharma	2495	2025	HB	ANE
9789386807182	Ethics and The Practice of Architecture	Shah	1995	2025	HB	Book Shore
9789386777072	Building and Architecture Design	Sinha	1995	2025	HB	Ishwar
9789386806222	Built Environment and Site Planning	Shah	1995	2025	HB	Ishwar
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9789386806536	Urban Housing	Sinha	1995	2025	HB	Ishwar
9788126548231	Advanced Analysis and Design of Steel Frames	Li	4995	2014	HB	WILEY
9788126546909	Anchorage In Concrete Construction	Eligehausen	4495	2014	HB	WILEY
9781138581685	City Planning For Civil Engineers, Environmental Engineers & Surveyors	Bauer	3995	2018	HB	CRC
9788126548316	Composites For Construction	Bank	4995	2014	HB	WILEY
9780415400138	Engineered Rock Structures in Mining and Civil Construction	Singh	5495	2015	HB	CRC
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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
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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





## 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

9788119160778 • 796 (Hb) • 2025 • ₹ 2995.00



## Automatic Control Systems

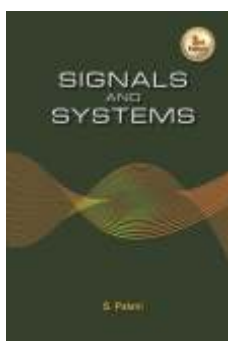
Including MATLAB

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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## 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.

9789394883826 • 1020 (Hb) • 2025 • ₹ 3295.00



## 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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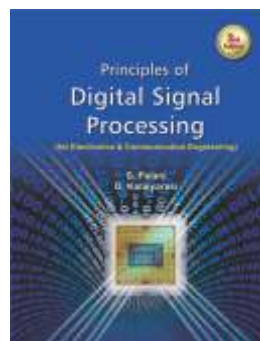


## Basic System Analysis

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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## Principles of Digital Signal Processing

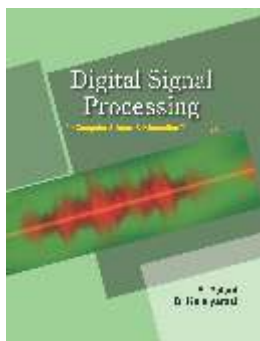
(for Electronics & Communication Engineering)

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

9788119160730 • 648 (Hb) • 2025 • ₹ 2995.00



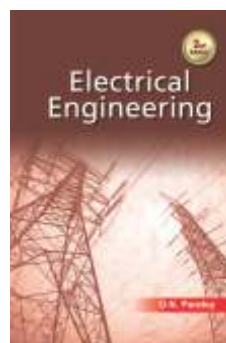
## Digital Signal Processing

(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

9788197917523 • 828 (Hb) • 2025 • ₹ 2995.00



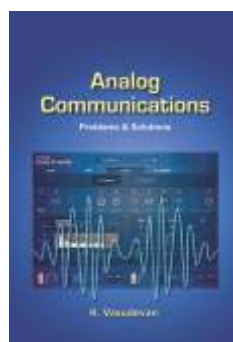
## Electrical Engineering

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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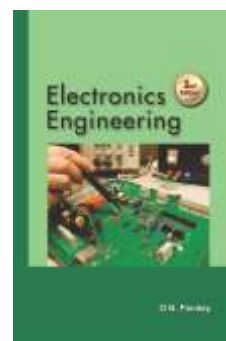
## Analog Communications

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) • 2025 • ₹ 2495.00



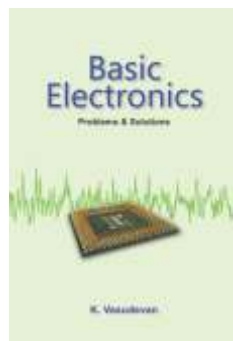
## Electronics Engineering

2/Ed

O.N. Pandey

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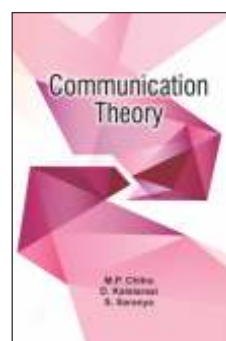
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Problems & Solutions

K. Vasudevan

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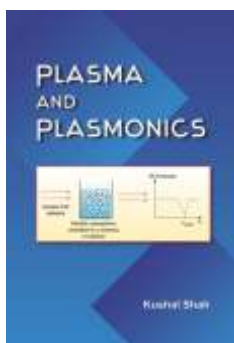


## Communication Theory

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D. Kalaiyarasi  
S. Saranya

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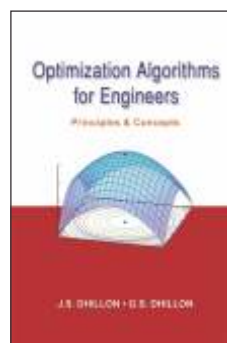


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Kushal Shah

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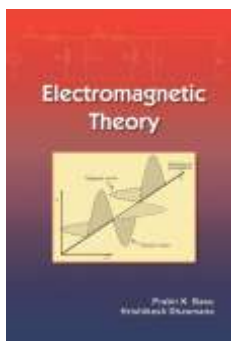


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J.S. Dhillon  
G.S. Dhillon

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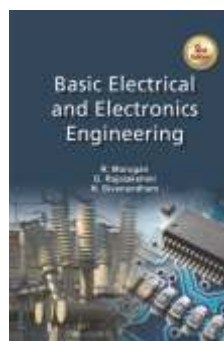


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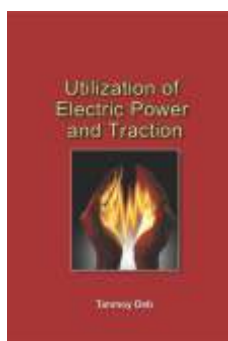


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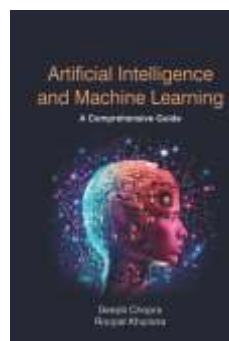


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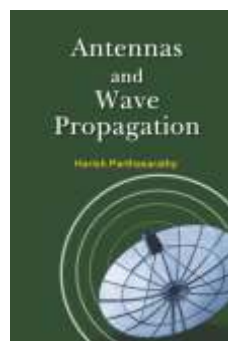


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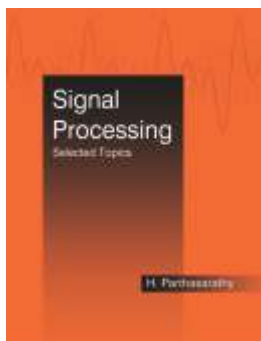


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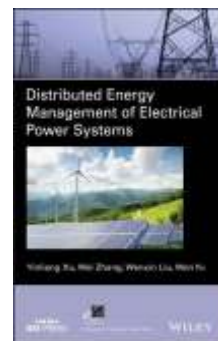
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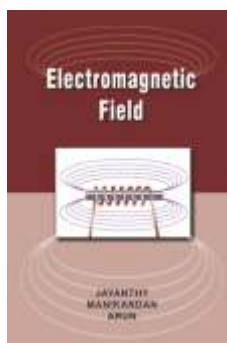
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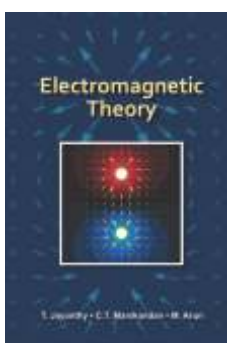


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Jayanthi  
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Arun

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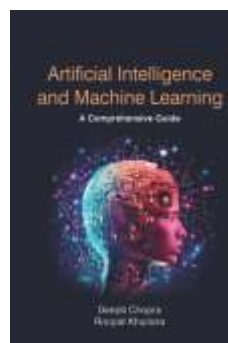
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(Including MATLAB & VERILOG Coding)

Dr. Shirshendu Roy  
Assistant Professor,  
Dayananda Sagar University, Bengaluru

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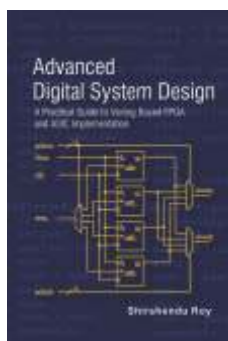


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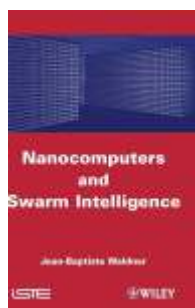
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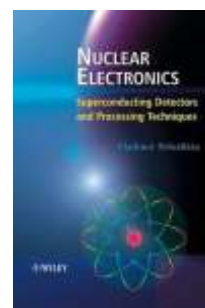
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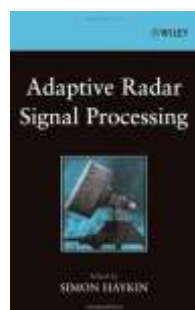
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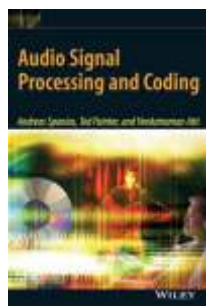
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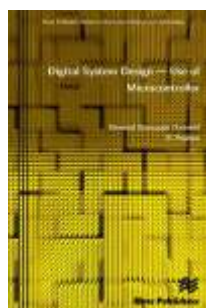
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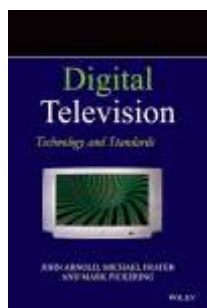
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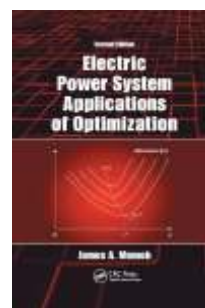
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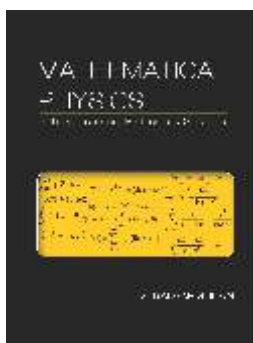


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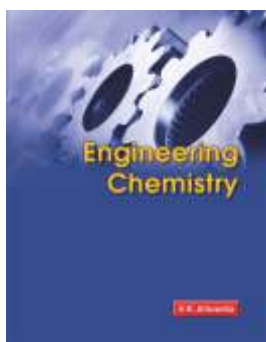
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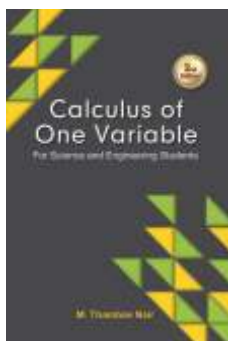


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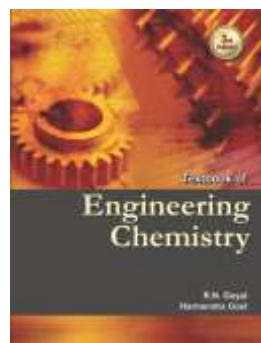
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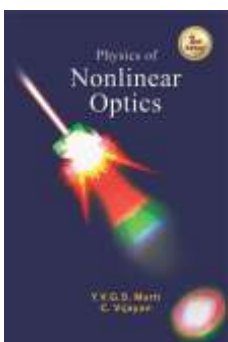


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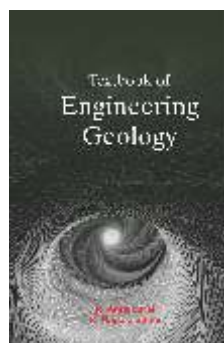
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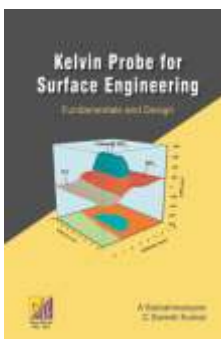


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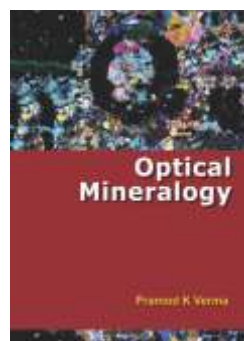
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