

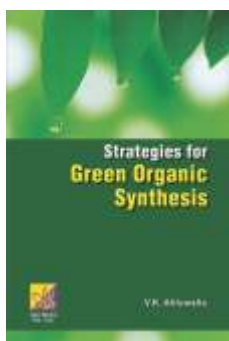
Organic Name Reaction, Mechanism and Conversion

Fundamentals to Advanced Synthesis Strategies

Nand Gopal Giri
Pooja Saluja
Saroj Kr. Shukla

About the Book: Name reactions serve as a roadmap for synthesizing various organic compounds, derivatives, and their modified forms. The compilation of name reaction also provides the update literature, required reagents and experimental routes for the student and researcher to perform and demonstrate the experiment quickly and effectively. In this context, this book will present organic name reactions used in chemical and biological industries for academic and commercial applications. The important reagents, reaction conditions and parameters of reactions are explained with the help of schemes, illustrations and references. The real practical examples of notable commercialized reactions are also described for the students, academicians and industry personals.

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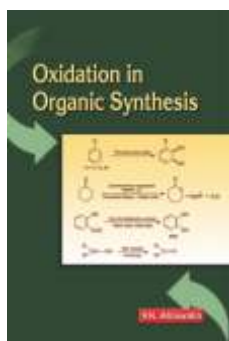


Strategies for Green Organic Synthesis

V.K. Ahluwalia

Contents: 1. Introduction 2. Carbon–Carbon Bond Formation 3. Carbon–Oxygen and C=O Bond Formation 4. Carbon–Nitrogen (Single, Double and Triple) Bond, Carbon–Halogen, Carbon–Sulphur, Nitrogen–Nitrogen Double Bond and Nitrogen–Oxygen Bond Formation 5. Interconversion of Functional Groups 6. Protecting Groups 7. Enantioselective Synthesis 8. Retrosynthesis, Index

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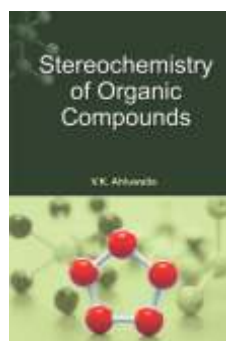


Oxidation in Organic Synthesis

V.K. Ahluwalia

Contents: 1. Oxidising Agents 2. Oxidation of Specific Types of Organic Compounds 3. Enzymatic or Microbial Oxidations 4. Some Oxidation Under Benign Conditions

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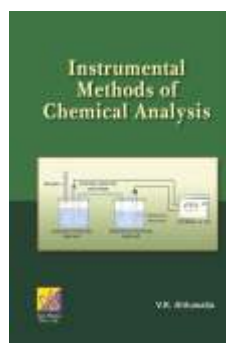


Stereochemistry of Organic Compounds

V.K. Ahluwalia

Contents: 1. Introduction 2. Stereochemistry of Organic Compounds Containing Carbon–Carbon Single Bonds (Hydrocarbons) 3. Stereochemistry of Organic Alicyclic Compounds Containing Carbon–Carbon Double Bonds (Alkenes and Cycloalkenes) 4. Stereochemistry of Organic Compounds containing Asymmetric Carbon 5. Symmetry Elements 6. Stereochemistry of Optically Active Compounds having no Asymmetric Carbon Atoms 7. Stereochemistry of Trivalent Carbon 8. Stereochemistry of Fused, Bridged and Caged Rings and Related Compounds 9. Optical Rotatory Dispersion and Circular Dichroism 10. Stereochemistry of Addition Reactions 11. Stereochemistry of Elimination Reactions 12. Stereochemistry of Substitution Reactions 13. Stereochemistry of Rearrangement Reactions 14. Stereochemistry of Pericyclic Reactions 15. Stereochemistry of Some Compound Containing Heteroatoms 16. Stereochemistry of Some Heterocyclic Compounds

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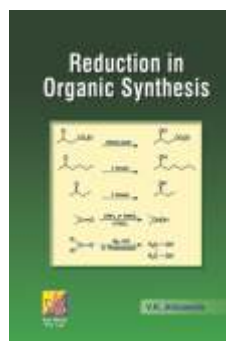


Instrumental Methods of Chemical Analysis

V. K. Ahluwalia

Contents: 1. Introduction to Instrumental Methods of chemical Analysis 2. Chromatography 3. Paper chromatography 4. Thin layer chromatography 5. Column chromatography 6. Gas chromatography 7. High performance liquid chromatography

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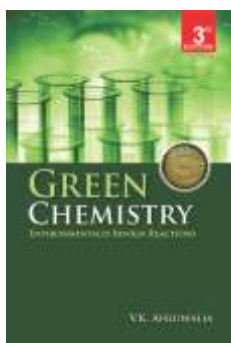


Reduction in Organic Synthesis

V.K. Ahluwalia

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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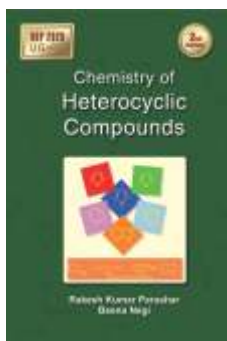
Green Chemistry

Environmentally Benign Reactions
3/Ed

V.K. Ahluwalia

Contents: • Green Chemistry • Green Reactions • Green Preparation

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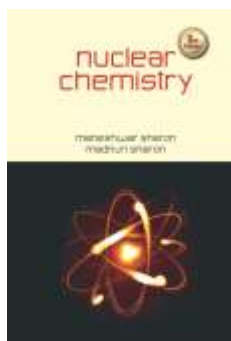


Chemistry of Heterocyclic Compounds

Rakesh Kumar Parashar
Beena Negi

Contents: 1. Introduction and Nomenclature 2. Three Membered Heterocyclic Compounds with One Heteroatom 3. Four Membered Heterocyclic Compounds with One Heteroatom 4. Five Membered Heterocyclic Compounds with One Heteroatom 5. Bicyclic Ring Systems Derived from Pyrrole, Furan and Thiophene 6. Five Membered Heterocyclic Compounds with Two Heteroatoms 7. Bicyclic Ring Systems Derived from 1,2-Azoles and 1,3-Azoles 8. Six Membered Heterocyclic Compounds with One Heteroatom 9. Bicyclic Ring Systems Derived from Pyridine 10. Six Membered Heterocyclic Compounds with Two Nitrogen Atoms 11. Bicyclic Ring Systems Derived from Pyridazine, pyrimidine and pyrazine 12. Seven Membered Heterocyclic Compounds 13. Tricyclic Heterocyclic Compounds 14. Heterocyclic Compounds Containing Three and Four Nitrogen atoms 15. Porphyrins 16. Chemistry of Spiroheterocycles

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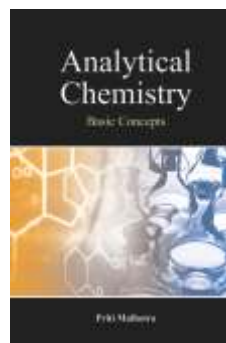
Nuclear Chemistry

2/Ed

Maheshwar Sharon
Madhuri Sharon

Contents: 1. Radioactivity 2. Nuclear Reaction 3. Interaction of Radiation with Matter 4. Ionization Counters 5. Scintillation Counter 6. Non-conventional Detection Techniques 7. Sample Preparation for Counting 8. Factors Affecting the Counting Efficiency 9. Identification of Radioactive Isotopes 10. Statistics of Counting 11. Health Hazards and Protection 12. Radiochemical Separation Techniques 13. Hot Atom-nuclear Reaction

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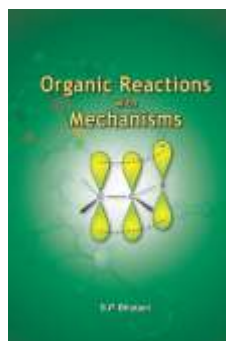


Analytical Chemistry

Basic Concepts

Priti Malhotra

Contents: 1. Statistical Methods of Analysis 2. Sampling 3. Spectroanalytical Techniques 4. Ultraviolet and Visible Spectral Methods
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Organic Reactions With Mechanisms

S.P. Bhutani

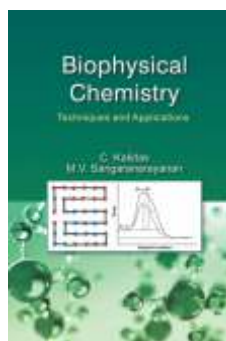
Contents: 1. Addition Reaction of Alkenes 2. Addition Reaction of Alkynes 3. Addition Reactions of Alkadienes and Aromatic Hydrocarbons
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Organometallic Chemistry

G.S. Sodhi

Contents: 1. Introduction 2. Carbonyl Organometallics 3. Olefin Organometallics 4. Alkyne Organometallics 5. Allyl Organometallics
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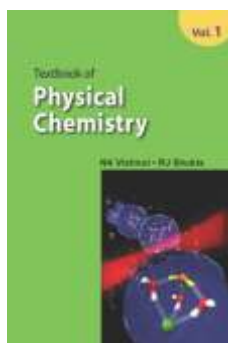


Biophysical Chemistry

Techniques and Applications

C. Kalidas
M.V. Sangaranarayanan

Contents: Part-I Different Types of Biomolecules 1. Cell and its biochemical setup 2. Thermodynamic aspects of the cell 3. Carbohydrates, their
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Textbook of Physical Chemistry Vol.1

N.K. Vishnoi
R.J. Shukla

Contents: 1. Gaseous State, 2. Liquid State, 3. Solid State, 4. Colloidal State, 5. Chemical Kinetics And Catalysis

9789389212549 • 186 (Hb) • 2023 • ₹ 1195.00



Textbook of Physical Chemistry Vol.2

N.K. Vishnoi
R.J. Shukla

Contents: 1. Thermodynamics I 2. Thermodynamics II 3. Chemical Equilibrium 4. Phase Equilibrium, 5. Electrochemistry I 6. Electrochemistry II

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Textbook of Physical Chemistry Vol.3

N.K. Vishnoi
R.J. Shukla

Contents: 1. Elementary Quantum Mechanics, 2. Spectroscopy, 3. Photochemistry, 4. Physical Properties and Molecular Structure,

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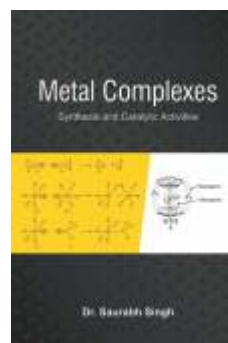


Coordination Chemistry Metal Complexes Transition Metal Chemistry with Lanthanides and Actinides

P.L. Soni
Vandana Soni

Contents: PART I: Coordination Chemistry (Metal Complexes) PART II: Coordination Chemistry (Transition Metal Chemistry)

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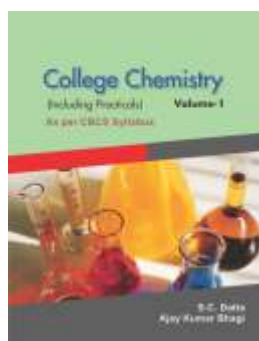


Metal Complexes Synthesis and Catalytic Activities

Dr. Saurabh Singh

About the Book: The book provides detailed understanding of materials for stability, synthesis and catalytic activities of metal complexes.

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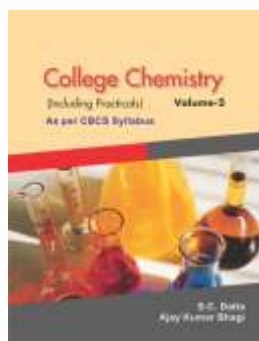


College Chemistry (Including Practicals) Volume-1 As per CBCS Syllabus

S.C. Datta
Ajay Bhagi

Contents: 1. Structure, Shape and Representation of Organic Molecules 2. Basics of Organic Chemistry 3. Stereochemistry 4. Gaseous State 5. Liquid State 6. Atomic Structure 7. Periodicity of Elements 8. Chemical Bonding-I (Ionic Bond) 9. Acids and Bases 10. Organic Chemistry Practicals 11. Surface Tension and Viscosity 12. Volumetric Analysis Some Important Constants and Conversion Factors, Table of the Symbols and Chemical Periodic Table Index

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College Chemistry (Including Practicals) Volume-2 As per CBCS Syllabus

S.C. Datta
Ajay Bhagi

Contents: 1. Carbon-Carbon Sigma Bonds –Alkanes and Cyclo-alkanes 2. Carbon-Carbon Pi Bonds-I–Alkenes and Alkadienes 3. Carbon-Carbon Pi Bonds-II Alkynes INORGANIC CHEMISTRY 4. Chemical Bonding-II—Covalent Bonding 5. Molecular Orbital Theory 6. Metallic Bond 7. Weak Chemical Forces PHYSICAL CHEMISTRY 8. Chemical Thermodynamics-I 9. Thermochemistry 10. Chemical Thermodynamics-II ORGANIC PRACTICALS 12. Organic Practicals INORGANIC PRACTICALS 13. Inorganic Practicals (Volumetric Analysis) PHYSICAL CHEMISTRY PRACTICALS 14. Physical Chemistry Practical Units. Index

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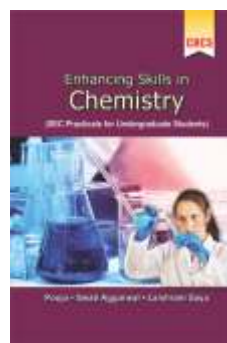
Surface Chemistry

Applications in Science
& Engineering

N C Kothiyal
Gangandeep Kaur
Harleen Singh

Contents: 1. Basics of Surface Chemistry 2. Surfactants 3. Self-assembly and Aggregation Behavior of Surfactants 4. Wetting Phenomenon and its Modification 5. Adsorption Mechanism 6. The Colloidal State

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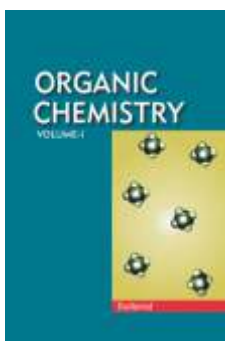
Enhancing Skills in Chemistry

(SEC Practicals for undergraduates)
(CBCS)

Pooja
Swati Aggarwal
Laishram Saya

Contents: 1. Basic Analytical Chemistry 2. Analytical Clinical Biochemistry 3. Green Method in Chemistry 4. Pharmaceutical Chemistry 5. Chemistry of Cosmetics and Perfumes 6. Pesticide Chemistry

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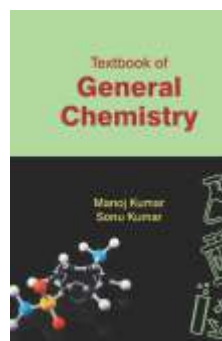
Organic Chemistry

Vol-1

Sultanat

About the Book: This book is designed to meet the requirements of B.Sc. 1st year students who do not have a good background in organic chemistry.

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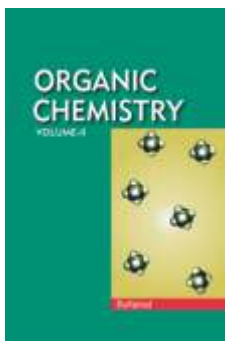


Textbook of General Chemistry

Manoj Kumar
Sonu Kumar

Contents: 1. The Solid State 2. Solutions 3. Electrochemistry 4. Chemical Kinetics 5. Surface Chemistry 6. General Principles and Processes of Isolation of Elements 7. The p-Block Elements 8. The d- & f-Block Elements 9. Coordination Compound 10. Haloalkenes & Haloarenes 11. Alcohols, Phenols and Ethers 12. Aldehydes Ketones and Carboxylic Acids 13. Amines 14. Biomolecules 15. Polymers 16. Chemistry in Everyday Life, Mock Tests

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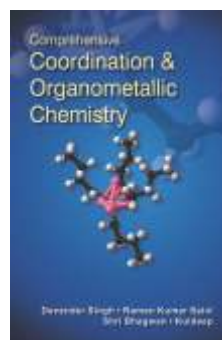
Organic Chemistry

Vol-2

Sultanat

Contents: 1. Alcohols 2. Phenols and Quinones 3. Ethers and Epoxides 4. Aldehydes, Ketones and Active Methylene Compounds 5. Carboxylic Acids and Derivatives 6. Amines, Nitroalkanes and Nitroarenes

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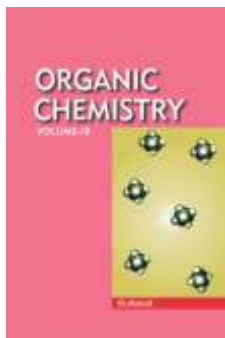


Comprehensive Coordination & Organometallic Chemistry

Devender Singh
Raman Kumar Saini
Shri Bhagwan
Kuldeep

Contents: Introduction of Coordination Compounds and their Nomenclature Isomerism in Coordination Compounds Bonding Theories of Coordination Complexes-I (Werner, VB and CFT) Bonding Theories of Coordination Complexes-II (Ligand Field Theory) Electronic Spectra-I (LS coupling) Electronic Spectra-II (Orgel and Tanabe-Sugano Diagram) Magnetic Properties of Transition Metal Complexes Reaction Mechanism in Coordination Complexes-I Reaction Mechanism in Coordination Complexes-II (Ligand Substitution Reaction in Square Planer Complexes and Electron Transfer Reactions) An Introduction to Organometallic Compounds Organometallic Compounds and their Properties-I (Metal Carbonyls and Nitrosyls) Organometallic Compounds and their Properties-II (Dinitrogen, Phosphine and Dioxygen Metal Complex). Metal Clusters

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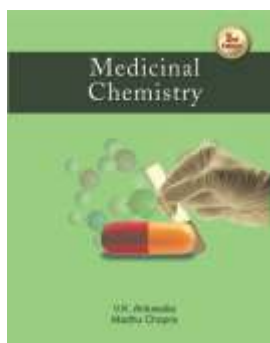
Organic Chemistry

Vol-3

Sultanat

Contents: 1. Organometallic Compounds 2. Heterocyclic Compounds 3. Carbohydrates 4. Amino Acids, Proteins and Nucleic Acids 5. Polynuclear

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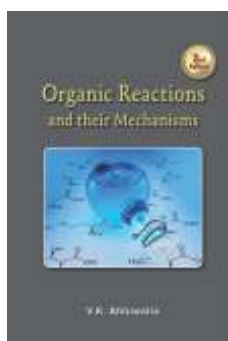
Medicinal Chemistry

2/Ed.

V. K. Ahluwalia
Madhu Chopra

Contents: 1. Drug Design and Development 2. Receptors and Drug Action 3. Enzymes: Catalytic Receptors 4. Drug Metabolism

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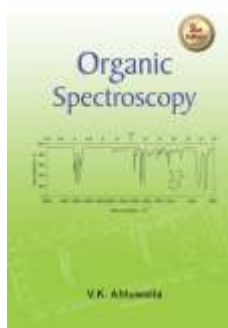
Organic Reactions and their Mechanisms

2/Ed

V.K. Ahluwalia

Contents: Introduction, Fundamental concepts, Equations involved in organic reaction, Chemical Bonds, Representation of a Chemical Reaction,

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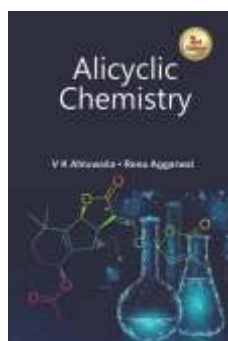
Organic Spectroscopy

2/Ed

V.K. Ahluwalia

Contents: 1. Introduction 2. Infrared Spectroscopy 3. Ultraviolet Spectroscopy 4. Nuclear Magnetic Resonance (NMR) Spectroscopy

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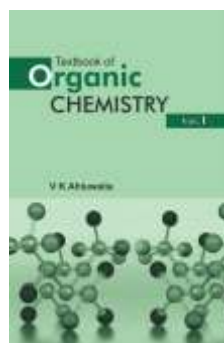
Alicyclic Chemistry

2/Ed

V.K. Ahluwalia
Renu Aggarwal

Contents: 1. Introduction 2. Nomenclature of Cycloalkanes 3. Synthesis of Cycloalkanes 4. Properties of Cycloalkanes 5. Chemistry of Smallhemistry

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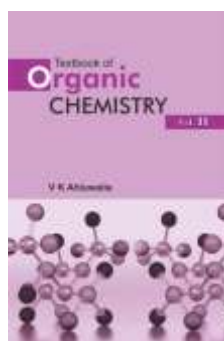
Textbook of Organic Chemistry

Vol. I

V.K. Ahluwalia

About the Book: The Textbook of Organic Chemistry Volume I has been written with a aim of meeting the needs of first year students of B.Sc (Hons.) and B.Sc. (Pass) of various Indian Universities. The contents are as per recommendations of the University Grants Commission.

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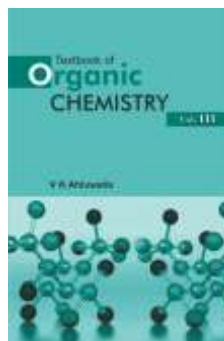
Textbook of Organic Chemistry

Vol. II

V.K. Ahluwalia

About the Book: The Textbook of Organic Chemistry Volume II has been written with the object of meeting the requirements of second year students of B.Sc. (Hons) and B.Sc. (Pass) of various Indian Universities. The contents are as per recommendations of the University Grants Commission.

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Textbook of Organic Chemistry

Vol. III

V.K. Ahluwalia

About the Book: The Textbook of Organic Chemistry Volume III has been written with the object of meeting the requirements of Final Year B.Sc (Hons) and B.Sc (Pass) of various Indian Universities. The contents are as per the recommendations of the University Grants Commission. The various topics included in this book are: spectroscopy (NMR); Organometallic Compounds; Organo Sulphur Compounds; Heterocyclic Compounds; Organic Synthesis via enolates; Carbohydrates; Amino Acids; Peptides; Proteins and Nucleic Acids, Fats, Oils and Detergents; Synthetic Polymers; and Synthetic Dyes.

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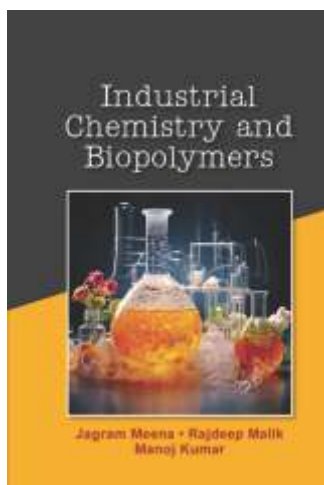
Industrial Chemistry and Biopolymers

Jagram Meena, Rajdeep Malik, Manoj Kumar

Contents

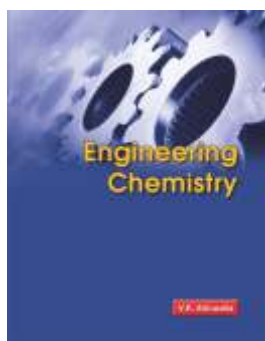
1. Industrial Gases and Inorganic Chemicals
2. Environment and its Segments
3. Environmental Effect of Ozone
4. Water Pollution: Their Sources
5. Water Purification Method: Effluent Treatment Plant
6. Industrial Waste Management, Incineration of Waste Water Treatment and Purification
7. Energy, Atmosphere, and Environment
8. Sources of Energy: Coal, Petrol and Natural Gas Nuclear fusion/fission, Solar Energy, Hydrogen, Geothermal, Tidal and Hydel etc
9. Nuclear Pollution: Disposal of Nuclear Waste, Nuclear Disaster and its Management
10. Industrial Effluents from Various Industries Pose Significant Environmental Challenges due to their Diverse Compositions and Potential Harmful Effects
11. Synthesis of Guar Gum Nanoparticles and Its Water Pollutants Application
12. Alginate and its Derivatives and its Applications of Medicinal
13. Cellulose Nanocomposites and their Applications
14. Starch Nanocomposite and their Application

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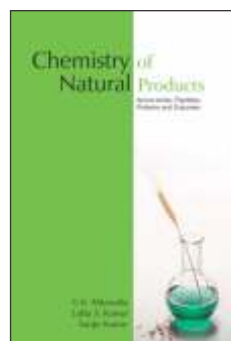
Engineering Chemistry

V.K. Ahluwalia



Contents: 1. Chemical Bonding and States of Matter 2. Reaction Kinetics 3. Phase Rule and Electrochemistry 4. Structural and Mechanistic Concepts of Organics 5. Polymer and Organometallics 6. Analytical Methods and Fuels

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Chemistry of Natural Products

Amino Acids, Peptides, Proteins and Enzymes

V K Ahluwalia
Lalita S Kumar
Sanjiv Kumar

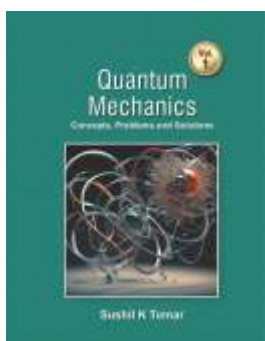
Contents: Chapter 1 : Amino Acids: Introduction. Nomenclature of Amino acids, Classification of Amino acids, Stereochemical aspects of α -Amino acids, Physical properties of α -Amino acids, Chemical reactions of Amino acids, Industrial preparation of α -amino acids, Chemical synthesis of α -Amino acids, Industrial applications of α -Amino acids, Chapter 2 : Peptides : Introduction, Structure and Classification of Peptides,

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Quantum Mechanics

Concepts, Problems and Solutions
Vol. 1

Sushil K Tomar



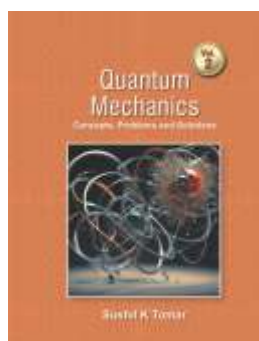
Contents: VOL-1 : I Fundamental of Quantum Mechanicsx 1 The Classical State 2 Origins of Quantum Mechanics 3 The Wave-like Behaviour of Electrons 4 The Quantum State 5 Dynamics of the Quantum State 6 Energy and Uncertainty 7 Operators and Observations II Exact Solution 8 Rectangular Potentials 9 The 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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Quantum Mechanics

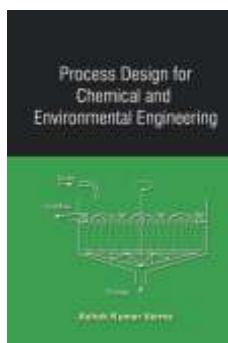
Concepts, Problems and Solutions
Vol. 2

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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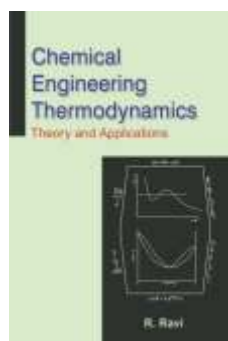


Process Design For Chemical and Environmental Engineering

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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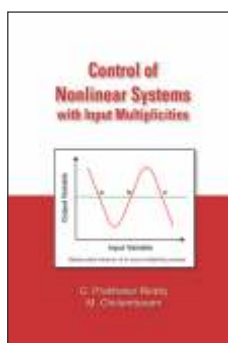


Chemical Engineering Thermodynamics Theory & Applications

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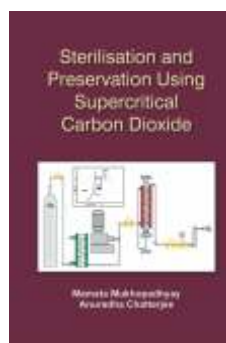


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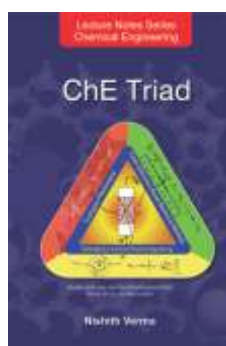


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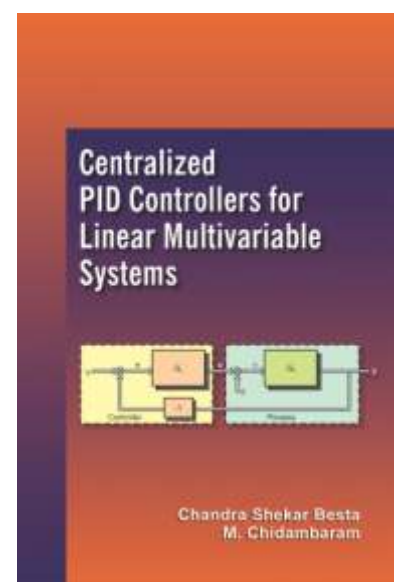
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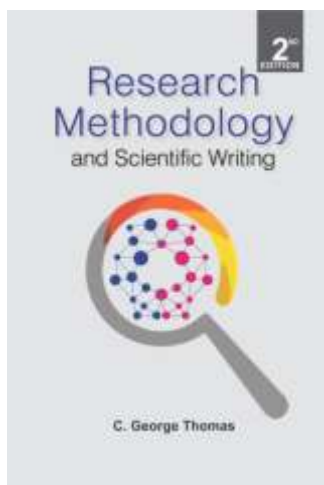
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