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A Textbook of Physical Chemistry

New Age International The Second Revised Edition Of The Book Is Intended To Meet The Requirement Of The Students Of Science, Engineering And Other Professional Courses At The Undergraduate Level. It Has Been Planned Strictly In Line With The Syllabi Of Various Indian Universities Who Have Adopted The New Ten-Plus-Two-Plus-Three Pattern Of Education. A New Chapter On Macromolecules Has Been Added, Thus Making A Total Of 27 Chapters In The Revised Edition. Chapters On Chemical Equilibrium, Colligative Properties, Atomic Structures, Chemical Bonding Have Been Thoroughly Reshuffled And Rewritten. Chapter 25 Has Been Rearranged And Divided Into Two Chapters Viz., Molecular Spectroscopy And Electrical And Magnetic Properties. New Sections Have Been Added To Chapters On Gaseous State, Colligative Properties, Electrolytic Conduction, Ionic Equilibria, Chemical Kinetics, Atomic Structure And Chemical Bonding. Other Chapters Have Also Been Modified And Redesigned. The Subject Matter Has Been Given In A Logical, Simple And Lucid Language. The Main Aim Has Been On Self Learning. Some More Diagrams And Illustrations Have Been Added In This Edition For Explaining The Basics And The Fundamentals Of The Subject. Conventional Problems In The Earlier Edition Have Been Dropped, But General And Objective Type Problems Are Retained. A Considerable Number Of Worked-Out Problems Have Been Included In Most Of The Chapters. These Would Expose The Students To Applications Of Various Concepts And Fundamentals Of The Subject. The Revised Text Largely Uses SI Units But CGS Units Have Been Retained In Those Cases Where The SI Units Have Not As Yet Been Fully Appreciated. We Have Attempted To Present A Revised Text That Effectively Provides Clean, Accurate And Balanced Views On Various Topics To Grasp

The Fundamentals Of The Subject More Clearly, Comprehensively And Concretely. The Book Should Meet The Requirements Of Students.

Textbook of Physical Chemistry

John Wiley & Sons

A Textbook of Physical Chemistry

New Age International Written primarily to meet the requirements of students at the undergraduate level, this book aims for a self-learning approach. The fundamentals of physical chemistry have been explained with illustrations, diagrams, tables, experimental techniques and solved problems.

A Textbook of Physical Chemistry – Volume 1

Dalal Institute An advanced-level textbook of physical chemistry for the graduate (B.Sc) and postgraduate (M.Sc) students of Indian and foreign universities. This book is a part of four volume series, entitled "A Textbook of Physical Chemistry - Volume I, II, III, IV".

CONTENTS: Chapter 1. Quantum Mechanics - I: Postulates of quantum mechanics; Derivation of Schrodinger wave equation; Max-Born interpretation of wave functions; The Heisenberg's uncertainty principle; Quantum mechanical operators and their commutation relations; Hermitian operators (elementary ideas, quantum mechanical operator for linear momentum, angular momentum and energy as Hermitian operator); The average value of the square of Hermitian operators; Commuting operators and uncertainty principle (x & p ; E & t); Schrodinger wave equation for a particle in one dimensional box; Evaluation of average position, average momentum and determination of uncertainty in position and momentum and hence Heisenberg's uncertainty principle; Pictorial representation of the wave equation of a particle in one dimensional box and its influence on the kinetic energy of the particle in each successive quantum level; Lowest energy of the particle.

Chapter 2. Thermodynamics - I: Brief resume of first and second Law of thermodynamics; Entropy changes in reversible and irreversible processes; Variation of entropy with temperature, pressure and volume; Entropy concept as a measure of unavailable energy and criteria for the spontaneity of reaction; Free energy, enthalpy functions and their significance, criteria for spontaneity of a process; Partial molar quantities (free energy, volume, heat concept); Gibb's-Duhem equation.

Chapter 3. Chemical Dynamics - I: Effect of temperature on reaction rates; Rate law for opposing reactions of 1st order and 2nd order; Rate law for consecutive & parallel reactions of 1st order reactions; Collision theory of reaction rates

and its limitations; Steric factor; Activated complex theory; Ionic reactions: single and double sphere models; Influence of solvent and ionic strength; The comparison of collision and activated complex theory. Chapter 4. Electrochemistry - I: Ion-Ion Interactions: The Debye-Huckel theory of ion-ion interactions; Potential and excess charge density as a function of distance from the central ion; Debye Huckel reciprocal length; Ionic cloud and its contribution to the total potential; Debye - Huckel limiting law of activity coefficients and its limitations; Ion-size effect on potential; Ion-size parameter and the theoretical mean-activity coefficient in the case of ionic clouds with finite-sized ions; Debye - Huckel-Onsager treatment for aqueous solutions and its limitations; Debye-Huckel-Onsager theory for non-aqueous solutions; The solvent effect on the mobility at infinite dilution; Equivalent conductivity (Λ) vs. concentration $c^{1/2}$ as a function of the solvent; Effect of ion association upon conductivity (Debye- Huckel - Bjerrum equation). Chapter 5. Quantum Mechanics - II: Schrodinger wave equation for a particle in a three dimensional box; The concept of degeneracy among energy levels for a particle in three dimensional box; Schrodinger wave equation for a linear harmonic oscillator & its solution by polynomial method; Zero point energy of a particle possessing harmonic motion and its consequence; Schrodinger wave equation for three dimensional Rigid rotator; Energy of rigid rotator; Space quantization; Schrodinger wave equation for hydrogen atom, separation of variable in polar spherical coordinates and its solution; Principle, azimuthal and magnetic quantum numbers and the magnitude of their values; Probability distribution function; Radial distribution function; Shape of atomic orbitals (s,p & d). Chapter 6. Thermodynamics - II: Classius-Clayperon equation; Law of mass action and its thermodynamic derivation; Third law of thermodynamics (Nernst heat theorem, determination of absolute entropy, unattainability of absolute zero) and its limitation; Phase diagram for two completely miscible components systems; Eutectic systems, Calculation of eutectic point; Systems forming solid compounds $A_x B_y$ with congruent and incongruent melting points; Phase diagram and thermodynamic treatment of solid solutions. Chapter 7. Chemical Dynamics - II: Chain reactions: hydrogen-bromine reaction, pyrolysis of acetaldehyde, decomposition of ethane; Photochemical reactions (hydrogen - bromine & hydrogen -chlorine reactions); General treatment of chain reactions (ortho-para hydrogen conversion and hydrogen - bromine reactions); Apparent activation energy of chain reactions, Chain length; Rice-Herzfeld mechanism of organic molecules decomposition(acetaldehyde); Branching chain reactions and explosions (H_2-O_2 reaction); Kinetics of (one intermediate) enzymatic reaction : Michaelis-Menton treatment; Evaluation of Michaelis 's constant for enzyme-substrate binding by Lineweaver-Burk plot and Eadie-Hofstae methods; Competitive and non-competitive inhibition. Chapter 8. Electrochemistry - II: Ion Transport in Solutions: Ionic movement under the influence of an electric field; Mobility of ions; Ionic drift velocity and its relation with current density; Einstein relation

between the absolute mobility and diffusion coefficient; The Stokes-Einstein relation; The Nernst -Einstein equation; Walden's rule; The Rate-process approach to ionic migration; The Rate process equation for equivalent conductivity; Total driving force for ionic transport, Nernst - Planck Flux equation; Ionic drift and diffusion potential; the Onsager phenomenological equations; The basic equation for the diffusion; Planck-Henderson equation for the diffusion potential.

A Textbook of Physical Chemistry

Elsevier A Textbook of Physical Chemistry, Second Edition serves as an introductory text to physical chemistry. Topics covered range from wave mechanics and chemical bonding to molecular spectroscopy and photochemistry; ideal and nonideal gases; the three laws of thermodynamics; thermochemistry; and solutions of nonelectrolytes. The kinetics of gas-phase reactions; colloids and macromolecules; and nuclear chemistry and radiochemistry are also discussed. This edition is comprised of 22 chapters; the first of which introduces the reader to the behavior of ideal and nonideal gases, with particular emphasis on the van der Waals equation. The discussion then turns to the kinetic molecular theory of gases and the application of the Boltzmann principle to the treatment of molar polarization; dipole and magnetic moments; the phenomenology of light absorption; and classical and statistical thermodynamics. The chapters that follow focus on the traditional sequence of chemical and phase equilibria, electrochemistry, and chemical kinetics in gas phase and solution phase. This book also considers wave mechanics and its applications; molecular spectroscopy and photochemistry; and the excited state, and then concludes with an analysis of crystal structure, colloid and polymer chemistry, and radio and nuclear chemistry. This reference material is intended primarily as an introductory text for students of physical chemistry.

Advanced Physical Chemistry

S. Chand Publishing A Textbook for B.Sc. (Part III and Hons.) and Postgraduate Courses of Indian Universities. In this edition, I have made major changes in the light of modern concepts introduced in syllabi at the under-graduate and postgraduate level as well. With matter has also been updated. The subject matter has been arranged systematically, in a lucid style and simple language. New Problems and exercises have also been introduced to acquaint the students with trend of questions they expect in the examinations.

Physical Chemistry

Volume I

This book covers the B.SC Hons. Syllabus of Physical Chemistry of Indian universities. The content of the book are presented in a form of continuous flow without any gap or negligence in presenting the subject matter.

Physical Chemistry Through Problems

New Age International

Advanced Physical Chemistry

Krishna Prakashan Media

ORGANIC CHEMISTRY, SECOND EDITION

PHI Learning Pvt. Ltd. The second edition of the book continues to offer a range of pedagogical features maintaining the balanced approach of the text. The attempts have been made to further strengthen the conceptual understanding by introducing more ideas and a number of solved problems. Comprehensive in approach, this text presents a rigorous treatment of organic chemistry to enable undergraduate students to learn the subject in a clear, direct, easily understandable and logical manner. Presented in a new and exciting way, the goal of this book is to make the study of organic chemistry as stimulating, interesting, and relevant as possible. Beginning with the structures and properties of molecules, IUPAC nomenclature, stereochemistry, and mechanisms of organic reactions, proceeding next to detailed treatment of chemistry of hydrocarbons and functional groups, then to organometallic compounds and oxidation-reduction reactions, and ending with a study of selected topics (such as heterocyclic compounds, carbohydrates, amino acids, peptides and proteins, drugs and pesticides, dyes, synthetic polymers and spectroscopy), the book narrates a cohesive story about organic chemistry. Transitions between topics are smooth, explanations are lucid, and tie-ins to earlier material are frequent to maintain continuity. The book contains over 500 solved problems from simple to really challenging ones with suitable explanations. In addition, over 275 examples and solved problems on IUPAC nomenclature, with varying levels of difficulty, are included.

About Some Key Features of the Book

- **EXPLORE MORE:** Four sets of solved problems provide in-depth knowledge and enhanced understanding of some important aspects of organic chemistry.
- **MINI ESSAYS:** Three small essays present interesting write-ups to provide students with introductory knowledge of chemistry of natural products such as lipids, terpenes, alkaloids, steroids along with nucleic acids and enzymes.
- **NOTABILIA:** Twenty-two 'notabilia boxes' interspersed throughout the text highlight the key aspects of related topics, varying from concepts of chemistry to the chemistry related to day-to-day life.
- **STRUCTURES AND MECHANISMS NOT IN ORDER:** Cites examples of common errors made by students while drawing structural formulae and displaying arrows in reaction mechanisms and helps them to improve on language of organic chemistry by teaching appropriate drawings and their significance.
- **GLOSSARY:** Includes 'Name reactions', 'Reagents', and some important terms for quick revision by students. Clearly written and logically organized, the authors have endeavoured to make this complex and important branch of science as easy as possible for students to learn from and for teachers to teach from.

Advanced Inorganic Chemistry - Volume II

S. Chand Publishing Advanced Inorganic Chemistry - Volume II is a concise book on basic concepts of inorganic chemistry. Beginning with Coordination Chemistry, it presents a systematic treatment of all Transition and Inner-Transition chemical elements and their compounds according to the periodic table. Special topics such as Pollution and its adverse effects, chromatography, use of metal ions in biological systems, to name a few, are discussed to provide additional relevant information to the students. It primarily caters to the undergraduate courses (Pass and Honours) offered in Indian universities.

Indian Books in Print

Essentials of Physical Chemistry

S. Chand Publishing Essentials of Physical Chemistry is a classic textbook on the subject explaining fundamentals concepts with discussions, illustrations and exercises. With clear explanation, systematic presentation, and scientific accuracy, the book not only helps the students clear misconceptions about the basic concepts but also enhances students' ability to analyse and systematically solve problems. This bestseller is primarily designed for B.Sc. students and would equally be useful for the aspirants of medical and engineering entrance examinations.

A TEXTBOOK OF ENGINEERING CHEMISTRY

S. Chand Publishing Any good text book, particularly that in the fast changing fields such as engineering & technology, is not only expected to cater to the current curricular requirements of various institutions but also should provide a glimpse towards the latest developments in the concerned subject and the relevant disciplines. It should guide the periodic review and updating of the curriculum.

Integrative Neurology

Oxford University Press, USA "Neurology is a quantitatively small corner of medicine that, increasingly, occupies a position of outsized importance and distinction in both the practice of medicine and in the health and well-being of society. The Decade of the Brain came into public awareness in 1990 as an initiative of president George W. Bush involving the NIH and NIMH "to enhance public awareness of the benefits to be derived from brain research"(1). In the intervening 20 years since 1999, we have seen significant increases in understanding the myriad of neurological diseases that confront society"--

Essential Physical Chemistry

Indian Book Industry

A Guidebook to Mechanism in

Organic Chemistry

Pearson Education India

Lok Sabha Debates

Organic Chemistry

Surfactants in Tribology, Volume 4

CRC Press Surface science and tribology play very critical roles in many industries. Manufacture and use of almost all consumer and industrial products rely on the application of advanced surface and tribological

knowledge. The fourth in a series, *Surfactants in Tribology, Volume 4* provides an update on research and development activities connecting surfactants

Canadian Journal of Chemistry

Physical Chemistry

Sarat Book Distributors

Advanced Ceramics for Energy and Environmental Applications

CRC Press Advanced Ceramics possess various unique properties and are able to withstand harsh environments. The aim of this book is to cover various aspects of the advanced ceramics like carbides, nitrides and oxides for energy and environment related applications. Advanced ceramics with additional functionality propose significant potential for greater impact in the field of energy and environmental technologies. This book focuses on the nanostructured ceramics synthesis, properties, structure-property relation and application in the area of energy and environment. It covers the high impact work from around 50 leading researchers throughout the world working in this field. This will help metallurgists, biologists, mechanical engineers, ceramicists, material scientists and researchers working in the nanotechnology field with inclusion of every aspect of advanced ceramics for energy and environmental applications.

TEXTBOOK OF IMMUNOLOGY

PHI Learning Pvt. Ltd. Primarily intended as a textbook for the undergraduate and postgraduate students of Biosciences, Biotechnology and Biochemistry, this compact and well-organized text now in its Second Edition introduces a chapter on Immunity to Infectious Agents. The book gives complete coverage of all the key topics in modern immunology without excessive detail or theoretical discussion. Each chapter is enriched with numerous well-labelled illustrations. Beginning with an introduction to the immune system including different types of immunity, immunogens and immunoglobulins, this text covers the basic concepts of antigen-antibody interaction and various methods of determining them. It also includes topics on lymphocytes, Major Histocompatibility Complex (MHC) and its classes, graft rejection, and complement pathways. The book concludes with a description on different types of vaccines, and cytokines which are a group of regulatory proteins. This textbook will also be useful to the students of B.Tech. (Biotechnology). **KEY FEATURES :** Encompasses the

most important topics on HIV and AIDS. Emphasizes the concept of tumour immunology and the therapeutic strategies used against tumours. Discusses autoimmunity, its causes and current therapies. Includes multiple-choice questions at the end of each chapter.

The Art of Writing Reasonable Organic Reaction Mechanisms

Springer Science & Business Media Intended for students of intermediate organic chemistry, this text shows how to write a reasonable mechanism for an organic chemical transformation. The discussion is organized by types of mechanisms and the conditions under which the reaction is executed, rather than by the overall reaction as is the case in most textbooks. Each chapter discusses common mechanistic pathways and suggests practical tips for drawing them. Worked problems are included in the discussion of each mechanism, and "common error alerts" are scattered throughout the text to warn readers about pitfalls and misconceptions that bedevil students. Each chapter is capped by a large problem set.

Practical Chemistry

Silver Nanoparticles

Fabrication, Characterization and Applications

Physical Inorganic Chemistry

Reactions, Processes, and Applications

John Wiley & Sons This go-to text provides information and insight into physical inorganic chemistry essential to our understanding of chemical reactions on the molecular level. One of the only books in the field of inorganic physical chemistry with an emphasis on mechanisms, it features contributors at the forefront of research in their particular fields. This essential text discusses the latest developments in a number of topics currently among the most debated and researched in the world of

chemistry, related to the future of solar energy, hydrogen energy, biorenewables, catalysis, environment, atmosphere, and human health.

Membrane Lipids

Methods and Protocols

Humana This detailed book explores examples of current in vitro and in silico techniques that are at the forefront of lipid membrane research today. Beginning with methods and strategies associated with the creation and use of lipid membrane models in various research settings, the volume continues with electrical impedance spectroscopy strategies and methods to identify how ions and proteins interact with model lipid bilayers, guidance on lipid bilayer in silico molecular dynamics modeling, novel techniques to explore lipid bilayer characteristics using neutron scattering, IR spectroscopy, and atomic force microscopy (AFM), as well as unique fluorescence techniques. Written in the highly successful *Methods in Molecular Biology* series style, chapters include introductions to their respective topics, lists of the necessary materials, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and cutting-edge, *Membrane Lipids: Methods and Protocols* serves as an ideal guide for researchers seeking to further investigate the often complicated world of lipid membrane biophysics.

Concise Physical Chemistry

John Wiley & Sons This book is a physical chemistry textbook that presents the essentials of physical chemistry as a logical sequence from its most modest beginning to contemporary research topics. Many books currently on the market focus on the problem sets with a cursory treatment of the conceptual background and theoretical material, whereas this book is concerned only with the conceptual development of the subject. Comprised of 19 chapters, the book will address ideal gas laws, real gases, the thermodynamics of simple systems, thermochemistry, entropy and the second law, the Gibbs free energy, equilibrium, statistical approaches to thermodynamics, the phase rule, chemical kinetics, liquids and solids, solution chemistry, conductivity, electrochemical cells, atomic theory, wave mechanics of simple systems, molecular orbital theory, experimental determination of molecular structure, and photochemistry and the theory of chemical kinetics.

Fundamentals of Physical Chemistry

Prentice Hall

Atkins' Physical Chemistry 11e

Volume 3: Molecular Thermodynamics and Kinetics

Oxford University Press, USA Atkins' Physical Chemistry: Molecular Thermodynamics and Kinetics is designed for use on the second semester of a quantum-first physical chemistry course. Based on the hugely popular Atkins' Physical Chemistry, this volume approaches molecular thermodynamics with the assumption that students will have studied quantum mechanics in their first semester. The exceptional quality of previous editions has been built upon to make this new edition of Atkins' Physical Chemistry even more closely suited to the needs of both lecturers and students. Re-organised into discrete 'topics', the text is more flexible to teach from and more readable for students. Now in its eleventh edition, the text has been enhanced with additional learning features and maths support to demonstrate the absolute centrality of mathematics to physical chemistry. Increasing the digestibility of the text in this new approach, the reader is brought to a question, then the math is used to show how it can be answered and progress made. The expanded and redistributed maths support also includes new 'Chemist's toolkits' which provide students with succinct reminders of mathematical concepts and techniques right where they need them. Checklists of key concepts at the end of each topic add to the extensive learning support provided throughout the book, to reinforce the main take-home messages in each section. The coupling of the broad coverage of the subject with a structure and use of pedagogy that is even more innovative will ensure Atkins' Physical Chemistry remains the textbook of choice for studying physical chemistry.

Democratizing Forest Governance in India

Oxford University Press, USA The forest sector in India is currently going through an unprecedented churning. Every dimension of forest-related decision-making, including rights of local communities, conversion of

forests to non-forest uses and setting aside forests for wildlife conservation, has become the subject of intense scrutiny, debate and change. The involvement of multiple actors, from local communities to the Supreme Court, marks a shift in the discourse from forest management to forest governance. Questions of forest rights, responsibilities, regulatory structures, transparency and accountability have increasingly become central to the discourse. The need to democratize all these components of forest governance is being repeatedly articulated. This book highlights this shift in the discourse and analyses the complex issues involved in bringing about democratic governance of forests in India. The essays in this book review developments over the last two decades along four dimensions: forests for local management, forests for wildlife conservation, conversion to non-forest purposes, and the wider socio-economic context and how it poses challenges to the idea of democratic governance. The themes range from the relevance of the Joint Forest Management programme, the contribution of the Forest Rights Act, the complexities of the Godavarman case and the changes in the Wildlife Act to challenges posed by shifting cultivation, scientific versus traditional knowledge, and the effect of economic growth on forest dependence.

Concise Inorganic Chemistry

A Textbook of Inorganic Chemistry – Volume 1

Dalal Institute An advanced-level textbook of inorganic chemistry for the graduate (B.Sc) and postgraduate (M.Sc) students of Indian and foreign universities. This book is a part of four volume series, entitled "A Textbook of Inorganic Chemistry - Volume I, II, III, IV". **CONTENTS:** Chapter 1. Stereochemistry and Bonding in Main Group Compounds: VSEPR theory, $d\pi - p\pi$ bonds, Bent rule and energetic of hybridization. Chapter 2. Metal-Ligand Equilibria in Solution: Stepwise and overall formation constants and their interactions, Trends in stepwise constants, Factors affecting stability of metal complexes with reference to the nature of metal ion and ligand, Chelate effect and its thermodynamic origin, Determination of binary formation constants by pH-metry and spectrophotometry. Chapter 3. Reaction Mechanism of Transition Metal Complexes - I: Inert and labile complexes, Mechanisms for ligand replacement reactions, Formation of complexes from aquo ions, Ligand displacement reactions in octahedral complexes- acid hydrolysis, Base hydrolysis, Racemization of tris chelate complexes, Electrophilic attack on ligands. Chapter 4. Reaction Mechanism of Transition Metal Complexes - II: Mechanism of ligand displacement reactions in square planar complexes, The trans effect, Theories of trans effect, Mechanism of electron transfer reactions - types; Outer sphere

electron transfer mechanism and inner sphere electron transfer mechanism, Electron exchange. Chapter 5. Isopoly and Heteropoly Acids and Salts: Isopoly and Heteropoly acids and salts of Mo and W: structures of isopoly and heteropoly anions. Chapter 6. Crystal Structures: Structures of some binary and ternary compounds such as fluorite, antiferite, rutile, antiferite, cristobalite, layer lattices- CdI_2 , BiI_3 ; ReO_3 , Mn_2O_3 , corundum, perovskite, Ilmenite and Calcite. Chapter 7. Metal-Ligand Bonding: Limitation of crystal field theory, Molecular orbital theory, octahedral, tetrahedral or square planar complexes, π -bonding and molecular orbital theory. Chapter 8. Electronic Spectra of Transition Metal Complexes: Spectroscopic ground states, Correlation and spin-orbit coupling in free ions for 1st series of transition metals, Orgel and Tanabe-Sugano diagrams for transition metal complexes ($d_1 - d_9$ states), Calculation of Dq , B and β parameters, Effect of distortion on the d-orbital energy levels, Structural evidence from electronic spectrum, John-Teller effect, Spectrochemical and nephelauxetic series, Charge transfer spectra, Electronic spectra of molecular addition compounds. Chapter 9. Magnetic Properties of Transition Metal Complexes: Elementary theory of magneto - chemistry, Guoy's method for determination of magnetic susceptibility, Calculation of magnetic moments, Magnetic properties of free ions, Orbital contribution, effect of ligand-field, Application of magneto-chemistry in structure determination, Magnetic exchange coupling and spin state cross over. Chapter 10. Metal Clusters: Structure and bonding in higher boranes, Wade's rules, Carboranes, Metal Carbonyl Clusters - Low Nuclearity Carbonyl Clusters, Total Electron Count (TEC). Chapter 11. Metal- π Complexes: Metal carbonyls, structure and bonding, Vibrational spectra of metal carbonyls for bonding and structure elucidation, Important reactions of metal carbonyls; Preparation, bonding, structure and important reactions of transition metal nitrosyl, dinitrogen and dioxygen complexes; Tertiary phosphine as ligand.

Principles of Polymer Science

Alpha Science Int'l Ltd. "Principles of Polymer Science introduces several basic and advanced aspects of polymers for the undergraduate and graduate students in chemistry, chemical engineering and materials science. The second and thoroughly revised edition includes the technical aspects of synthesis, characterization, behaviour and technology in a straightforward and lucid manner. Separate chapters on natural, inorganic and specialty polymers would attract readers from interdisciplinary courses."--BOOK JACKET.

Contaminants and Clean

Technologies

CRC Press Contaminants and Clean Technologies provides valuable information on environmental contaminants such as industrial pollutants, micropollutants, pesticides, endocrine disruptors, pharmaceuticals, toxins, and hormones. It focuses on the various types of environmental contaminants discharged from various sources; their toxicological effects in environments, humans, animals, and plants; and their removal methods. It also covers, comprehensively, information on the contaminants released by various industries and agricultural practices, which cause severe threats to the environment. Features of the book: Elucidates systematic information on various types of environmental contaminants, and their fate and consequences Discusses contaminants such as endocrine disruptors, pharmaceutical waste, and personal care products Provides an overview of physicochemical and biological treatment technologies for sustainable development Details recent research finding in the area of environmental contaminants and their future challenges

International Books in Print

Organic Chemistry