

## **Download Ebook O P Gupta Chemical Engineering Read Pdf Free**

*Hydroxamic Acids Handbook Chemistry Chemical Process Technology Energy Technology Chemical Metallurgy Cancer-Leading Proteases Viral Polymerases Polymer Chemistry Introduction to Software for Chemical Engineers Reaction Mechanism in Organic Chemistry Elements of Petroleum Refinery Engineering Objective Chemistry Encyclopedia of Chemical Processing Khanna's Multichoice Questions & Answers in Metallurgical Engineering Green Chemistry for Dyes Removal from Waste Water Chemistry Education in the ICT Age Performance Booster Subjective Questions of Organic Chemistry Cancer-Causing Viruses and Their Inhibitors Detailed Project Profiles on 9 Selected Chemical Industries (2nd Revised Edition) Physical Chemistry for Chemists and Chemical Engineers Atomic And Molecular Spectroscopy British Chemical Abstracts Phosphorus Heterocycles II Calcium and Chemical Looping Technology for Power Generation and Carbon Dioxide (CO<sub>2</sub>) Capture Nucleic Acids in Medicinal Chemistry and Chemical Biology New Trends in Emerging Environmental Contaminants China's Virtual Monopoly of Rare Earth Elements Computational Materials Chemistry Proceedings of the Symposium on High Temperature Metal Halide Chemistry Studies on Hepatitis Viruses Current Medicinal Chemistry Nanomaterials and Nanocomposites for Environmental Remediation Canadian Journal of Chemistry Chemical Ecology of Insects Advanced Bioremediation Technologies and Processes for the Treatment of Synthetic Organic Compounds (SOCs) Comprehensive Medicinal Chemistry III Organometallic Chemistry Journal of the Indian Chemical Society Experimental Organic Chemistry Carbon-Containing Polymer Composites*

*Canadian Journal of Chemistry Sep 15 2021*

*Proceedings of the Symposium on High Temperature Metal Halide Chemistry Jan 20 2022*

*Viral Polymerases Dec 11 2023 Viral Polymerases: Structures, Functions and Roles as Antiviral Drug Targets presents in-depth study information on the structure and functions of polymerases and their roles in the lifecycle of viruses, and as drug targets. Viral polymerases constitute a vital component in the lifecycle of many viruses, such as human immunodeficiency virus (HIV), hepatitis viruses, influenza virus, and several others. They are essentially required for the replication of viruses. Thus, the polymerases that can be found in viruses (called viral polymerases) represent favorable targets for the design and development of antiviral drugs. Provides comprehensive, state-of-the-art coverage on virus infections, the virus lifecycle, and mechanisms of polymerase inhibition Analyzes the*

structure-activity relationships of inhibitors of each viral polymerase Presents a consistent and comprehensive coverage of all aspects of viral polymerases, including structure, function and their role as antiviral drug targets

*Hydroxamic Acids* Jun 17 2024 Satya P. Gupta's *Hydroxamic Acids* is the first book to compile invited articles written by international experts on the class of compounds hydroxamic acids. Found to possess a wide spectrum of biological activities, the hydroxamic acids are of interest to theoretical and experimental chemists who can study and make use of them in drug design and development. Chapters in this book provide a diverse and comprehensive coverage of this compound class and consequently this publication is a valuable resource for researchers in chemical, pharmaceutical and biological sciences.

*Chemical Ecology of Insects* Aug 15 2021 Insects have evolved very unique and interesting tactics using chemical signals to survive. Chemical ecology illustrates the working of the biological network by means of chemical analyses. Recent advances in analytical technology have opened the way to a better understanding of the more complicated and abyssal interactions of insects with other organisms including plants and microbes. This book covers recent research on insects and chemical communications and presents the current status about challenges faced by chemical ecologists for the management of pests in agriculture and human health.

*Physical Chemistry for Chemists and Chemical Engineers* Oct 29 2022 This volume is based on different aspects of chemical technology that are associated with research and the development of theories for chemical engineers, helping to bridge the gap between classical analysis and modern, real-life applications. Taking an interdisciplinary approach, the authors present the current state-of-the-art technology in key materials with an emphasis on the rapidly growing technologies.

*Chemistry Education in the ICT Age* Mar 02 2023 The 20<sup>th</sup> International Conference on Chemical Education (20 ICCE), which had the theme "Chemistry in the ICT Age" as the theme, was held from 3 to 8 August 2008 at Le Méridien Hotel, Pointe aux Piments, in Mauritius. With more than 200 participants from 40 countries, the conference featured 140 oral and 50 poster presentations. Participants of the 20 ICCE were invited to submit full papers and the latter were subjected to peer review. The selected accepted papers are collected in this book of proceedings. This book of proceedings encloses 39 presentations covering topics ranging from fundamental to applied chemistry, such as Arts and Chemistry Education, Biochemistry and Biotechnology, Chemical Education for Development, Chemistry at Secondary Level, Chemistry at Tertiary Level, Chemistry Teacher Education, Chemistry and Society, Chemistry Olympiad, Context Oriented Chemistry, ICT and Chemistry Education, Green Chemistry, Micro Scale

Chemistry, Modern Technologies in Chemistry Education, Network for Chemistry and Chemical Engineering Education, Public Understanding of Chemistry, Research in Chemistry Education and Science Education at Elementary Level. We would like to thank those who submitted the full papers and the reviewers for their timely help in assessing the papers for publication. We would also like to pay a special tribute to all the sponsors of the 20 ICCE and, in particular, the Tertiary Education Commission (<http://tec.intnet.mu/>) and the Organisation for the Prohibition of Chemical Weapons (<http://www.opcw.org/>) for kindly agreeing to fund the publication of these proceedings.

*Cancer-Causing Viruses and Their Inhibitors* Dec 31 2022 Cancer-causing viruses, also called oncoviruses, play a key role in the development of certain cancers. They contribute to genetic changes that disrupt the cell cycle machinery, interfering with functions such as cell growth. *Cancer-Causing Viruses and Their Inhibitors* presents a plethora of research from internationally reputed contributors who di

*Green Chemistry for Dyes Removal from Waste Water* Apr 03 2023 The use of synthetic chemical dyes in various industrial processes, including paper and pulp manufacturing, plastics, dyeing of cloth, leather treatment and printing, has increased considerably over the last few years, resulting in the release of dye-containing industrial effluents into the soil and aquatic ecosystems. The textile industry generates high-polluting wastewaters and their treatment is a very serious problem due to high total dissolved solids (TDS), presence of toxic heavy metals, and the non-biodegradable nature of the dyestuffs in the effluent. The chapters in this book provide an overview of the problem and its solution from different angles. These problems and solutions are presented in a genuinely holistic way by world-renowned researchers. Discussed are various promising techniques to remove dyes, including the use of nanotechnology, ultrasound, microwave, catalysts, biosorption, enzymatic treatments, advanced oxidation processes, etc., all of which are "green." *Green Chemistry for Dyes Removal from Wastewater* comprehensively discusses: Different types of dyes, their working and methodologies and various physical, chemical and biological treatment methods employed Application of advanced oxidation processes (AOPs) in dye removal whereby highly reactive hydroxyl radicals are generated chemically, photochemically and/or by radiolytic/ sonolytic means. The potential of ultrasound as an AOP is discussed as well. Nanotechnology in the treatment of dye removal types of adsorbents for removal of toxic pollutants from aquatic systems Photocatalytic oxidation process for dye degradation under both UV and visible light, application of solar light and solar photoreactor in dye degradation

*Current Medicinal Chemistry* Nov 17 2021

*New Trends in Emerging Environmental Contaminants* Apr 22 2022 This book is based on recent trends for the research in emerging

environmental contaminants in different compartment of the environment. It provides a recent understanding for the fate, transport, and degradation of emerging contaminants in different environmental sectors, including water, air, and soil. The contents discuss the fate and transport of microplastics, PPCPs, along with the method of detection and degradation. It includes removal of variety of pollutants including microplastics, pharmaceuticals, and personal care products from the water using adsorption technique, electrooxidation, membrane technology and other advance oxidation methods. This volume will be of great value to those in academia and industry involved in environmental science and engineering research.

Chemical Process Technology Apr 15 2024 This book will be useful for degree & diploma Curriculum of Engineering and for various associate membership examinations conducted by professional bodies like Institution of Engineers (AMIE) and Indian Institute of chemical Engineers (AMIChE) etc. Salient Features of This Book \* Subject matter has been presented in simple, lucid & easy to understand language \* Covers all the topics included in the syllabus of various engineering colleges/Technical Institutes & professional bodies examination papers.

Nucleic Acids in Medicinal Chemistry and Chemical Biology May 24 2022  
Nucleic Acids in Medicinal Chemistry and Chemical Biology An up-to-date and comprehensive exploration of nucleic acid medicinal chemistry and its applications In Nucleic Acids in Medicinal Chemistry and Chemical Biology: Drug Development and Clinical Applications, a team of distinguished researchers delivers a comprehensive overview of the chemistry and biology of nucleic acids and their therapeutic applications. The book emphasizes the latest research in the field, including new technologies like CRISPR that create novel possibilities to edit mutated genes at the genomic DNA level and to treat inherited diseases and cancers. The authors explore the application of modified nucleosides and nucleotides in medicinal chemistry, a variety of current topics on nucleic acid chemistry and biology, nucleic acid drugs used to treat disease, and more. They also probe new domains of pharmaceutical research, offering the reader a wealth of new drug discovery opportunities emerging in this dynamic field. Readers will also find: A thorough introduction to the basic terminology and knowledge of the field of nucleic acid medicinal chemistry Comprehensive explorations of the methods used to determine the development of nucleic acid drugs Practical discussions of new technologies, like CRISPR, nanotechnology-based delivery systems, synthetic biology, and DNA-encoded chemical libraries In-depth examinations of the latest, cutting-edge developments in nucleic acid medicinal chemistry Perfect for medicinal and nucleic acid chemists, Nucleic Acids in Medicinal Chemistry and Chemical Biology will also earn a place in the libraries of biochemists, chemical biologists, and

pharmaceutical researchers.

*Polymer Chemistry Nov 10 2023*

*Journal of the Indian Chemical Society Apr 10 2021*

*Performance Booster Subjective Questions of Organic Chemistry Feb 01 2023* The guiding principle in writing this book was to create a textbook for students- a textbook that presents the material in a way that student learn to solve all the questions by themselves at appropriate space. This spacing area help the students to think for the length of the answer which they have to write. As the school examination plays the most important role in the life of student & the marks are counted in many aspects of life. Now the question arises, what should be the way to study to get maximum marks. The answer is so simple that we all know it well i.e. we have to write more. We are presenting this workbook in chapter wise which are further divided into topics in the same way which you were taught in class so that you should feel easy to understand and practice correctly. For better picture of the topic, questions in each topic have been arranged in ascending order of length. We are also providing our best answer to all the questions so that student can learn correct way to get more marks in exam.

*Objective Chemistry Jul 06 2023* The Book Thoroughly The Following: Physical Chemistry With Detailed Concepts And Numerical Problems. Organic Chemistry With More Chemical Equations. Inorganic Chemistry With Theory And Examples. In Addition To A Well Explained Theory The Book Includes Well Categorized Classified And Sub-Classified Questions On The Basis Of Latest Trends Of Examination Papers. Salient Features As Per The Syllabus Of Engineering And Medical Entrance Examinations Previous Years Solved Papers Every Unit Contains (I) Main Highlights; (Ii) Multiple Choice Questions; (Iii) True And False Statements; (Iv) Hints And Solutions.

*Reaction Mechanism in Organic Chemistry Sep 08 2023* This book contain Substitution Reaction like Nucleophilic and Electrophilic with detail their mechanism And addition reaction , elimination reaction , oxidation reaction , reaction of carbon radical , reaction of carbonyl group And Stereochemistry also..... This book useful for B.Sc. M.Sc. and all competition exams....Like NEET , IIT JEE , DRDO , BARC etc.

*Elements of Petroleum Refinery Engineering Aug 07 2023* This book is targeted to benefit the diploma in engineering students. Degree in engineering students (B.Tech-Chemical Engineering, Petroleum Engineering, Petrochemical Engineering, Aeronautical Engg., AMIE, AMIICHE, students etc. M. Tech students of various disciplines pursuing courses on petroleum refining. Faculty members/ teaching staff of engineering college/IIT's/NIT's etc. Practicing petroleum engineers/consultants/refiners in various private sector/public sector undertakings, state/central government departments, NGO's etc. Students of foreign universities of developing countries pursuing

diploma/degree/postgraduate courses in various engineering disciplines having a paper in petroleum refinery engineering.❓

Energy Technology Mar 14 2024 Energy Technology is an integral part of the degree, postgraduate & diploma curriculum of various branches of engineering. besides, it is also a compulsory paper for various associate membership examination conducted by professional bodies like institution of engineering (AMIE), Indian Institute of Metals (AMIIM), Indian Institute of Chemical Engineering (AMIChE), BEE etc. This book has been prepared strictly as per the syllabus of these examinations. Short questions & answer and multiple-choice questions & answers drawn from the examination papers of various engineering colleges and professional bodies examinations given at the end of the book enhances its utility for the student.

Phosphorus Heterocycles II Jul 26 2022 Contents: S. Sasaki: Heterophenes Carrying Phosphorus Functional Groups as Key Structures.- D.D. Enchev: Synthesis and Biological Activity of 2,5-Dihydro-1,2-Oxaphosphole-2-Oxide Derivatives.- D. Gudat: Recent Developments in the Chemistry of N -Heterocyclic Phosphines.- J. Drabowicz • D. Krasowska • A. Łopusiński • T.S.A. Heugebaert • C.V. Stevens: Selected Five-Membered Phosphorus Heterocycles Containing a Stereogenic Phosphorus.- G. Keglevich: 1-(2,4,6-Trialkylphenyl)-1 H -Phospholes with a Flattened P-Pyramid: Synthesis and Reactivity.- N. Gupta: Recent Advances in the Chemistry of Diazaphospholes

Experimental Organic Chemistry Mar 10 2021

Organometallic Chemistry May 12 2021

Studies on Hepatitis Viruses Dec 19 2021 Studies on Hepatitis Viruses: Life Cycle, Structure, Functions, and Inhibition presents the latest on this systemic infection that predominantly affects the liver with inflammation that can be acute or chronic. Hepatitis viruses have been the subject of intense study in the last twenty years, with a wealth of information related to their lifecycle, structure, functions and inhibition being presented. This book compiles the most important developments and research, giving users a very useful guide on this evolving area of virology and medicinal chemistry. Provides comprehensive, state-of-the-art coverage of hepatitis virus infections, the virus' lifecycle, and mechanisms of protease inhibition Analyzes structure-activity relationships of inhibitors of viral hepatitis Presents an in-depth view of the structure and function of viral hepatitis Discusses classification, epidemiology, pathogenesis, natural history, clinical manifestations, diagnosis, complications, associated disorders and animal models

China's Virtual Monopoly of Rare Earth Elements Mar 22 2022 Rare Earth Elements are a group of 17 metals which have a central role in modern industry, increasingly used in the fields of green technologies, high technological consumer goods, industrial and medical appliances and modern weapons systems. Although deposits of

Rare Earths are globally dispersed, over 90% of global demand has been provided by Chinese mines since the late 1990s, leading to a situation where China has a virtual monopoly. This book surveys the Rare Earths mining industry, discusses the extent to which Rare Earths really are scarce elsewhere in the world and assesses the economics of production, considering arguments for the rationing of supply, for higher pricing and for a total export embargo. This actually occurred in 2010, demonstrating the vulnerability of the rest of the world to China's control of these increasingly vital resources.

Computational Materials Chemistry Feb 18 2022 As a result of the advancements in algorithms and the huge increase in speed of computers over the past decade, electronic structure calculations have evolved into a valuable tool for characterizing surface species and for elucidating the pathways for their formation and reactivity. It is also now possible to calculate, including electric field effects, STM images for surface structures. To date the calculation of such images has been dominated by density functional methods, primarily because the computational cost of - curate wave-function based calculations using either realistic cluster or slab models would be prohibitive. DFT calculations have proven especially valuable for elucidating chemical processes on silicon and other semiconductor surfaces. However, it is also clear that some of the systems to which DFT methods have been applied have large non-dynamical correlation effects, which may not be properly handled by the current generation of Kohn-Sham-based density functionals. For example, our CASSCF calculations on the Si(001)/acetylene system reveal that at some geometries there is extensive 86 configuration mixing. This, in turn, could signal problems for DFT cal- lations on these systems. Some of these problem systems can be addressed using ONIOM or other "layering" methods, treating the primary region of interest with a CASMP2 or other multireference-based method, and treating the secondary region by a lower level of electronic structure theory or by use of a molecular mechanics method. ACKNOWLEDGEMENTS We wish to thank H. Jónsson, C. Sosa, D. Sorescu, P. Nachtigall, and T. -C.

Nanomaterials and Nanocomposites for Environmental Remediation Oct 17 2021 p="" This monograph focuses on recent development of nanomaterials and nanocomposites for pollution measurement and their control in water, air, and soil. The contents incorporate carbon-based, metal-based, and metal-organic framework based nanomaterials and nanocomposites for emerging contaminants (pharmaceuticals and personal care products) degradation, disinfection, and other traditional pollutants degradation and removal. The book also offers updated literature for researchers and academicians working in the field of environmental remediation by nanomaterials. Readers will learn about different metal and non-metal based nanoparticles for environmental remediation. It will be a useful guide for

professionals, and post-graduate students involved in material science & engineering, chemical engineering and environmental nanotechnology research. ^

*British Chemical Abstracts Aug 27 2022*

*Encyclopedia of Chemical Processing Jun 05 2023 Supplying nearly 350 expertly-written articles on technologies that can maximize and enhance the research and production phases of current and emerging chemical manufacturing practices and techniques, this second edition provides gold standard articles on the methods, practices, products, and standards recently influencing the chemical industries. New material includes: design of key unit operations involved with chemical processes; design, unit operation, and integration of reactors and separation systems; process system peripherals such as pumps, valves, and controllers; analytical techniques and equipment; current industry practices; and pilot plant design and scale-up criteria.*

*Detailed Project Profiles on 9 Selected Chemical Industries (2nd Revised Edition) Nov 29 2022 (LIMITED EDITION- ONLY PHOTOSTAT COPY AVAILABLE) The chemicals sub-sector of industry in India as a whole (including pharmaceuticals) accounts for about 13% of the total output of the manufacturing sector, 13 to 14% in total exports and 8 to 9% in total imports of the country. The sector contributes about 3% to the GDP. It also contributes 18 to 20% to the exchequer by way of taxes. The size of the sub-sector is estimated at around USD 35 bn (approximately Rs 1575 bn). The basic chemicals make up for nearly 57% of the sub-sector, followed by about 26% of specialty chemicals. The rest is made up of high-end chemicals or what are now termed as knowledge segment. Against an overall installed capacity of around 10 mn tonnes, India produces nearly 8 mn tonne, of an assortment of chemicals. These exclude petrochemicals, but include chlor-alkalis, and dyes and dyestuffs. The chemicals industry is a highly versatile segment in the overall industrial economy of India. It has linkages with almost every other industrial activity, be it food processing, metallurgy, textiles, rubber or leather. There is, in fact, hardly any segment where chemicals do not feature. The industry is broadly segmented into four major categories: Chlor-alkali and inorganic chemicals: caustic soda, soda ash, sulphuric acid, titanium dioxide, carbon black, calcium carbide, aluminium fluoride and others; Organic including alcohol-based chemicals: ethyl glycol, phenols, acetic acid, acetic anhydride, vinyl acetate, monomers, ethylene dichloride, ethylacetate and others; Petrochemicals-based specialities: leather and textile auxiliaries, synthetic resins, rubber chemicals, especially for tyres; and Agro-oriented chemicals: guar gum, starch, citric acid, sorbitol, yeast and others. Petrochemicals, pharmaceuticals, synthetic fibres, fertilisers and pesticides, paints and dye-stuffs constitute over 85% of the market. The remaining 15%*



represents a wide range of chemical intermediates and industrial or speciality chemicals which have a market of over Rs 240 bn (including imports of about Rs 35 bn). Against the growth dynamics of the chemical industry as a whole, the industrial chemicals segment covering intermediates and speciality chemicals witnessed a somewhat sluggish growth in recent years. Thereafter some upward trend was in evidence as a consequence of a rally in user industries like rubber, leather, food processing, textiles especially man-made fibres and fabrics. Downstream industries like chlorinated benzenes, cosmetics and pesticides also registered positive trends. The industry has remained among the fastest growing sectors of the economy. The chemical industry remains concentrated in the western region, which claims a near 50% share of investment flows. In the western region, Gujarat makes the largest contribution to the chemical industry's production activity. This book provides detailed project profiles of important chemical industries with its properties, uses & applications, manufacturing processes, process flow sheets, cost estimations. The book also contains addresses of machinery and raw material suppliers of the mentioned chemicals. Research scholars, professional students, scientists, new entrepreneurs, and present manufacturers will find valuable educational material and wider knowledge of these 9 selected chemicals in this book. Comprehensive in scope, the book provides solutions that are directly applicable to the properties, manufacturing technology and other specific details of these chemicals.

*Carbon-Containing Polymer Composites Feb 06 2021* This book discusses the methods synthesizing various carbon materials, like graphite, carbon blacks, carbon fibers, carbon nanotubes, and graphene. It also details different functionalization and modification processes used to improve the properties of these materials and composites. From a geometrical-structural point of view, it examines different properties of the composites, such as mechanical, electrical, dielectric, thermal, rheological, morphological, spectroscopic, electronic, optical, and toxic, and describes the effects of carbon types and their geometrical structure on the properties and applications of composites.

Calcium and Chemical Looping Technology for Power Generation and Carbon Dioxide (CO<sub>2</sub>) Capture Jun 24 2022 Calcium and Chemical Looping Technology for Power Generation and Carbon Dioxide (CO<sub>2</sub>) Capture reviews the fundamental principles, systems, oxygen carriers, and carbon dioxide carriers relevant to chemical looping and combustion. Chapters review the market development, economics, and deployment of these systems, also providing detailed information on the variety of materials and processes that will help to shape the future of CO<sub>2</sub> capture ready power plants. Reviews the fundamental principles, systems, oxygen carriers, and carbon dioxide carriers relevant to

calcium and chemical looping Provides a lucid explanation of advanced concepts and developments in calcium and chemical looping, high pressure systems, and alternative CO<sub>2</sub> carriers Presents information on the market development, economics, and deployment of these systems

Khanna's Multichoice Questions & Answers in Metallurgical Engineering

May 04 2023 This book is meant for diploma & degree student of metallurgical engineering for their academic programs as well as for various competitive examination for securing jobs. This book has been structured in three section. First section contains multiple choice type questions of various subjects of metallurgical engineering. Second section contains chapter wise question of GATE (Graduate Aptitude Test in Engineering) from 1991 to 2016. Third section contains SHORT QUESTIONS & ANSWERS in METALLURGICAL ENGINEERING. Fourth section contains APPENDICES containing Glossary of terms related to Metallurgical Engineering and Q&A of GATE-2017. This book has been designed to serve as "Hand Book of Metallurgical Engineering" which will be useful for various competitive examinations for recruitment in various public sector & Private Sector companies as well as for GATE Examination. Question have been arranged subject wise and answers are given at the bottom of the page.

Cancer-Leading Proteases Jan 12 2024 Cancer-Leading Proteases: Structures, Functions, and Inhibition presents a detailed discussion on the role of proteases as drug targets and how they have been utilized to develop anticancer drugs. Proteases possess outstanding diversity in their functions. Because of their unique properties, proteases are a major focus of attention for the pharmaceutical industry as potential drug targets or as diagnostic and prognostic biomarkers. This book covers the structure and functions of proteases and the chemical and biological rationale of drug design relating to how these proteases can be exploited to find useful chemotherapeutics to fight cancers. In addition, the book encompasses the experimental and theoretical aspects of anticancer drug design based on proteases. It is a useful resource for pharmaceutical scientists, medicinal chemists, biochemists, microbiologists, and cancer researchers working on proteases. Explains the role of proteases in the biology of cancer Discusses how proteases can be used as potential drug targets or as diagnostic and prognostic biomarkers Covers a wide range of cancers and provides detailed discussions on protease examples

Chemical Metallurgy Feb 13 2024 Chemical metallurgy is a well founded and fascinating branch of the wide field of metallurgy. This book provides detailed information on both the first steps of separation of desirable minerals and the subsequent mineral processing operations. The complex chemical processes of extracting various elements through hydrometallurgical, pyrometallurgical or electrometallurgical operations are explained. In the choice of material for this work, the author made good use of the synergy of scientific principles and

industrial practices, offering the much needed and hitherto unavailable combination of detailed treatises on both compiled in one book.

*Atomic And Molecular Spectroscopy Sep 27 2022 This Comprehensive Text Clearly Explains Quantum Theory, Wave Mechanics, Structure Of Atoms And Molecules And Spectroscopy. The Book Is In Three Parts, Namely, Wave Mechanics; Structure Of Atoms And Molecules; And Spectroscopy And Resonance Techniques. In A Simple And Systematic Manner, The Book Explains The Quantum Mechanical Approach To Structure, Along With The Basic Principles And Application Of Spectroscopic Methods For Molecular Structure Determination. The Book Also Incorporates The Electric And Magnetic Properties Of Matter, The Symmetry, Group Theory And Its Applications. Each Chapter Includes Many Solved Examples And Problems For A Better Understanding Of The Subject. With Its Exhaustive Coverage And Systematic Approach, This Is An Invaluable Text For B.Sc. (Hons.) And M.Sc. Chemistry Students.*

*Comprehensive Medicinal Chemistry III Jun 12 2021 Comprehensive Medicinal Chemistry III, Eight Volume Set provides a contemporary and forward-looking critical analysis and summary of recent developments, emerging trends, and recently identified new areas where medicinal chemistry is having an impact. The discipline of medicinal chemistry continues to evolve as it adapts to new opportunities and strives to solve new challenges. These include drug targeting, biomolecular therapeutics, development of chemical biology tools, data collection and analysis, in silico models as predictors for biological properties, identification and validation of new targets, approaches to quantify target engagement, new methods for synthesis of drug candidates such as green chemistry, development of novel scaffolds for drug discovery, and the role of regulatory agencies in drug discovery. Reviews the strategies, technologies, principles, and applications of modern medicinal chemistry Provides a global and current perspective of today's drug discovery process and discusses the major therapeutic classes and targets Includes a unique collection of case studies and personal assays reviewing the discovery and development of key drugs*

Handbook Chemistry May 16 2024

Advanced Bioremediation Technologies and Processes for the Treatment of Synthetic Organic Compounds (SOCs) Jul 14 2021 Dr. Datta Madamwar holds a provisional patent related to the theme of this Research Topic. All other Topic Editors declare no competing interests with regards to the Research Topic subject.

*Introduction to Software for Chemical Engineers Oct 09 2023 The field of chemical engineering is in constant evolution, and access to information technology is changing the way chemical engineering problems are addressed. Inspired by the need for a user-friendly chemical engineering text that demonstrates the real-world applicability of different computer programs, Introduction to Software*

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