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Electrocatalysis: Computational, Experimental, and Industrial Aspects BoD – Books on Demand

This book discusses almost periodic and almost automorphic solutions to abstract integro-differential Volterra equations that are degenerate in time, and in particular equations whose solutions are governed by (degenerate) solution operator families with removable singularities at zero. It particularly covers abstract fractional equations and inclusions with multivalued linear operators as well as abstract fractional semilinear Cauchy problems.

JJAP Elsevier

This is the second volume on adsorption using green adsorbents and is written by international contributors who are the leading experts in the adsorption field. Together with the first volume they show a typical selection of green materials used in wastewater treatment, with emphasis on industrial effluents. This second volume focuses on innovative materials. It presents hemp-based materials for metal removal, and the use of leaves for metal removal. It describes the biosorption of metals and metalloids on various materials and discusses the recent advances in cellulose-based adsorbents used in environmental purposes. Furthermore, activated carbons from food wastes, aerogels and bones, and municipal solid waste biochar as efficient materials for pollutant removal, respectively are reviewed as well as biosorption of dyes onto microbial biosorbents and the use of mushroom biomass to remove pollutants are looked at. The volume also includes detailed review of green adsorbents for removal of antibiotics, pesticides and endocrine disruptors and the use of pillared interlayered clays as innovative materials for pollutant removal. Finally, the use of green adsorbents for radioactive pollutant removal from natural water is discussed. The audience for this book includes students, environmentalists, engineers, water scientists, civil and industrial personnel who wish to specialize in adsorption technology. Academically, this book will be of use to students in chemical and environmental engineering who wish to learn about adsorption and its fundamentals. It has also been compiled for practicing engineers who wish to know about recent developments on adsorbent materials in order to promote further research toward improving and developing newer adsorbents and processes for the efficient removal of pollutants from industrial effluents. It is hoped that the book will serve as a readable and useful presentation not only for undergraduate and postgraduate students but also for the water scientists and engineers and as a convenient reference handbook in the form of numerous recent examples and appended information.

Technical Abstract Bulletin Routledge

The Pigment Compendium Dictionary is a comprehensive information source for scientists, art historians, conservators and forensic specialists. Drawn together from extensive analytical research into the physical and chemical properties of pigments, this essential reference to pigment names and synonyms describes the inter-relationship of different names and terms. The Dictionary covers the field worldwide from pre-history to the present day, from rock art to interior decoration, from ethnography to contemporary art. Drawing on hundreds of hard-to-obtain documentary sources as well as modern scientific data each term is discussed in detail, giving both its context and composition. * Comprehensive list of pigment names and synonyms * Pigments used worldwide from pre-history to the present day * Contains information from hundreds of hard-to-obtain documentary sources

Laboratory Manual of General Chemistry ... Royal Society of Chemistry

Electrocatalysis applications are employed in a large number of industries worldwide, ranging from old technologies such as galvanoplasty to the most up-to-date deployments involving ultracapacitors. Recognizing electrocatalysis as a useful interfacial approach to a dynamic interdisciplinary science, *Electrocatalysis: Computational, Experimental, Reviews of Environmental Contamination and Toxicology Volume 232* Academic Press

In recent decades, credit unions have seen unprecedented threats, due in large part to an eighty-year-old business model and an inability to adapt quickly to a digital economy. But Kirk Drake has devised a powerful plan to revitalize these noble institutions, making them more competitive, more creative, more connected with their membership, and more in tune with the times. A serial entrepreneur focused on credit-union technology, Drake has written a must-read manual for every CU board member, CEO, and management team in America. The first and only book of its kind, CU 2.0 offers essential strategies for leveraging the latest technologies to facilitate organizational growth and foster more even competition with the banking industry. With the tools provided here, the CU of tomorrow will be better equipped to empower its employees, while giving its members the superior financial service they want and need. It's time to be innovative and bold, to challenge long-standing inefficiencies and move away from the "old school" methods of doing business. CU 2.0 provides the skills, the savvy, and the fresh ideas necessary to finally transport the credit union out of the twentieth century and into the twenty-first.

Almost Periodic and Almost Automorphic Solutions to Integro-Differential Equations ASM International

"A remarkably intelligible survey . . . well organized, well written and very clear throughout." — *Mathematical Reviews* This excellent text, long considered one of the best-written, most skillful expositions of group theory and its physical applications, is directed primarily to advanced undergraduate and graduate students in physics, especially quantum physics. No knowledge of group theory is assumed, but the reader is expected to be familiar with quantum mechanics. And while much of the book concerns theory, readers will nevertheless find a large number of physical applications in the fields of crystallography, molecular theory, and atomic and nuclear physics. The first seven chapters of the book are concerned with finite groups, focusing on the central role of the symmetric group. This section concludes with a chapter dealing with the problem of determining group characters, as it discusses Young tableaux, Yamanouchi symbols, and the method of Hund. The remaining five chapters discuss continuous groups, particularly Lie groups, with the final chapter devoted to the ray representation of Lie groups. The author, Professor Emeritus of Physics at the University of Minnesota, has included a generous selection of problems. They are inserted throughout the text at the place where they naturally arise, making the book ideal for self-study as well as for classroom assignment. 77 illustrations. "A very welcome addition to [the] literature. . . . I would warmly recommend the book to all serious students of Group Theory as applied to Physics." — *Contemporary Physics*. Index. Bibliography. Problems. Tables.

BITSAT 16 Years Chapter-wise Solved Papers (2020 - 2005) with 5 Online Mock Tests 4th Edition New Age International

Bioconjugate Techniques, Third Edition, is the essential guide to the modification and cross linking of biomolecules for use in research, diagnostics, and therapeutics. It provides highly detailed information on the chemistry, reagent systems, and practical applications for creating labeled or conjugate molecules. It also describes dozens of reactions, with details on hundreds of commercially available reagents and the use of these reagents for modifying or crosslinking peptides and proteins, sugars and polysaccharides, nucleic acids and oligonucleotides, lipids, and synthetic polymers. Offers a one-stop source for proven methods and protocols for synthesizing bioconjugates in the lab Provides step-by-step presentation makes the book an ideal source for researchers who are less familiar with the synthesis of bioconjugates Features full color illustrations Includes a more extensive introduction into the vast field of bioconjugation and one of the most thorough overviews of immobilization chemistry ever presented

Insights from Imaging in Bioinorganic Chemistry CRC Press

Covers the business of insurance and risk management, and is a tool for market research, strategic planning, competitive intelligence or employment searches. This book contains trends, statistical tables and an industry glossary. It also provides profiles of more than 300 of the world's leading insurance companies.

Advanced Water Treatment Elsevier

Advanced Water Treatment: Adsorption discusses the application of adsorption in water purification. The book reviews research findings on the preparation of five different nano/microcellulose-based adsorbents, their characterization, the study of adsorption kinetics and isotherms, the determination of adsorption mechanisms, and an evaluation of adsorbents' regeneration properties. The book describes modification microfibriated cellulose (MFC), the use of succinic anhydride modified mercerized nanocellulose, and aminosilane and hydroxyapatite modified nanostructured MFC for the removal of heavy metals from aqueous solutions. Final sections describe the use of aminosilane, epoxy and hydroxyapatite modified MFC as a promising alternative for H₂S removal from aqueous solutions, along with new findings on the adsorption properties of carbonated hydroxyapatite modified MFC as multifunctional adsorbent for the removal of both cations and anions ions from water. Includes the most recent research on advanced water treatment by adsorption Provides the latest updates on novel adsorbents for water purification Describes REE removal using various adsorbents Covers a wide range of methods and their integration

Standard Methods of Chemical Analysis John Wiley & Sons

As a spectroscopic method, Nuclear Magnetic Resonance (NMR) has seen spectacular growth over the past two decades, both as a technique and in its applications. Today the applications of NMR span a wide range of scientific disciplines, from physics to biology to medicine. Each volume of Nuclear Magnetic Resonance comprises a combination of annual and biennial reports which together provide comprehensive of the literature on this topic. This Specialist Periodical Report reflects the growing volume of published work involving NMR techniques and applications, in particular NMR of natural macromolecules which is covered in two reports: "NMR of Proteins and Acids" and "NMR of Carbohydrates, Lipids and Membranes". For those wanting to become rapidly acquainted with specific areas of NMR, this title provides unrivalled scope of coverage. Seasoned practitioners of NMR will find this an invaluable source of current methods and applications.

Specialist Periodical Reports provide systematic and detailed review coverage in major areas of chemical research. Compiled by teams of leading authorities in the relevant subject areas, the series creates a unique service for the active research chemist, with regular, in-depth accounts of progress in particular fields of chemistry. Subject coverage within different volumes of a given title is similar and publication is on an annual or biennial basis.

CU 2.0 Plunkett Research, Ltd.

The Book Enables Students To Thoroughly Master Pre-College Chemistry And Helps Them To Prepare For Various Entrance (Screening) Tests With Skill And Confidence. The Book Thoroughly Explains The Following: * Physical Chemistry, With Detailed Concepts And Numerical Problems * Organic Chemistry, With More Chemical Equations And Conversion * Inorganic Chemistry, With Theory And Examples In Addition To A Well-Explained Theory, The Book Includes, Well Categorized, Classified And Sub-Classified Questions (With Authentic Answers And Explanations) On The Basis Of * Memory Based Questions (Sequential Questions, To Help Step-By-Step Learning And Understanding The Concepts In Each Chapter) * Logic Based Questions (Numerical Objective Problems & Questions Requiring Tricks) * Questions From Competitive Exams (Covering Objective Questions Up To Year 2002 Of All Indian Engineering/ Medical Examinations In Chronological Order).

Electronic Waste Management Arihant Publications India limited

The Determination of Hydrazino-Hydrazide Groups discusses the analytical methods for the analysis of hydrazino, hydrazide, hydrazine, substituted hydrazines, and hydrazine derivatives. It also shows the usefulness of hydrazines and its derivatives as analytical reagents. The book presents a detailed examination of a variety of analytical methods used in determining hydrazines and hydrazides derivatives. These methods include oxidation, colorimetry and spectrophotometry, coulometry, polarography, and gasometric and acid-based methods. The book concludes by discussing the use of hydrazines as analytical reagents. The text is invaluable for everyone interested in hydrazides and hydrazines and their applications.

Recent Advances in Crystallography Springer Science & Business Media

If you have ever wondered when visiting the pharmacy how the dosage of your prescription is determined this book will answer your questions. Dosing information on drug labels is based on discussion between the pharmaceutical manufacturer and the drug regulatory agency, and the label is a summary of results obtained from many scientific experiments. The book introduces the drug development process, the design and the analysis of clinical trials. Many of the discussions are based on applications of statistical methods in the design and analysis of dose response studies. Important procedural steps from a pharmaceutical industry perspective are also examined.

The Pigment Compendium Walter de Gruyter GmbH & Co KG

The advent of X-ray diffraction in the early twentieth century transformed crystallography from an area of scientific inquiry largely limited to physics, mineralogy, and mathematics, to a highly interdisciplinary field which now includes nearly all life and physical sciences as well as materials science and engineering. This book is a collection of works showcasing some of the most recent developments in the field of crystallography.

Andhra Pradesh EAMCET Chapterwise Solutions 2020-2018 Chemistry for 2021 Exam Prabhat Prakashan

Insights from Imaging in Bioinorganic Chemistry continues a long-running series that describes recent advances in scientific research, in particular, in the field of inorganic chemistry. Several highly regarded experts, mostly from academe, contribute on specific topics. The series editor chooses a sub-field within inorganic chemistry as the theme and focus of the volume, extending invitations to experts for their contributions; the current theme is insights from metal ion imaging in bioinorganic and medicinal chemistry. Contains concise, informative accounts that are not too highly specialized, therefore appealing to a wide range of scientists and health professionals Presents contributions from highly qualified international experts Provides intrinsic scientific interest and applications, including important issues relating to the diagnosis and therapeutics that are relevant to public health

[Istfa 2005](#) BoD – Books on Demand

A fundamental part of modern technology is composed of devices that use special materials as main components. Since the last few decades of the last century and even more recently, a remarkable development has been achieved in new micro- and nanostructured materials with compositional structures and production methods that open unprecedented technological, economic, and ecological perspectives due to high yields, economies of scale, the possibility of reducing weight and size, and the low environmental impact of the equipment that contains them. This book offers a collection of excellent studies that use state-of-the-art methodologies developed by professional researchers from different countries in diverse areas of materials. In this way, this book is particularly useful to academics, scientists, practicing researchers, and postgraduate students whose work relates to the latest nanomaterial technologies.

Scientific and Technical Aerospace Reports Springer

NTA CUET (PG)-2024 CHEMISTRY COMPREHENSIVE GUIDE We present the ' NTA CUET (PG)-2024 CHEMISTRY COMPREHENSIVE GUIDE ' .

The book suffices the need of the aspirants in terms of: Latest CUET Solved Paper 2023 Latest Examination Scheme and Syllabus Concise yet In-depth Chapters Readability of the Content Concise yet In-depth Chapters Ample figures and diagrams Solved MCQs Mock Test with Every Module Moreover, the book is supplemented with a Joint Admission Test for Masters (JAM) Mock Test (CHEMISTRY). The book is divided into 3 Parts consisting chapters in detail: PART I : Inorganic Chemistry Module I comprises Periodic Table, Chemical Bonding and Shapes of Compounds, Main Group Elements, Transition Elements; Module II comprises Bioinorganic Chemistry, Instrumental Methods of Analysis, Analytical Chemistry, ; PART II : Organic Chemistry Module I comprises Basic Concepts of Organic Chemistry and stereochemistry, Organic Reaction Mechanism and Synthetic Application; Module II comprises Qualitative Organic Analysis, Natural Products Chemistry, Aromatic and Heterocyclic Chemistry; PART III : Physical Chemistry Module I comprises Basic Mathematical Concepts, Atomic and Molecular Structure, Theory of Gases, Solid State, Chemical Thermodynamics; Module II comprises Chemical and Phase Equilibria, Electrochemistry, Chemical Kinetics, Adsorption, Spectroscopy. This book serves to be a suitable Study Guide for the aspirants, with focus on Qualitative Preparation and Systematic understanding of the Syllabus and Examination Level. With provision for self-assessment in Mock Tests, this book stands beneficial in imprinting concepts in the mind.

Group Theory and Its Application to Physical Problems Springer

Reviews of Environmental Contamination and Toxicology attempts to provide concise, critical reviews of timely advances, philosophy and significant areas of accomplished or needed endeavor in the total field of xenobiotics, in any segment of the environment, as well as toxicological implications.

[Watts' Dictionary of Chemistry, Revised and Entirely Rewritten](#) Disha Publications

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

[Bioconjugate Techniques](#) Courier Corporation

ELECTRONIC WASTE MANAGEMENT Current knowledge on electronic waste management strategies, along with future challenges and solutions, supported by case studies Electronic Waste Management maps out numerous aspects of health and environmental impacts associated with electronic waste, thoroughly detailing what we can expect in terms of the use of electronic products and the management of electronic waste in the future. The book assists readers in grasping the fundamentals of the entire e-waste system by covering various factors related to the health and environmental impacts of electronic waste, as well as a perspective on the subject based on current global recycling strategies. Presented in a straightforward and scientific manner, the book also covers many electronic waste management process technologies. By inviting together, a diverse group of experts, including researchers, policymakers, and industry professionals who generously shared their knowledge and experiences in the field to tackling this global issue, Electronic Waste Management enables readers to foster a deeper understanding of the complex issues surrounding electronic waste and to explore innovative solutions that can help mitigate its adverse effects on the environment and health of human and animals. Sample topics covered in Electronic Waste Management include: Global electronic waste management strategies and different global waste models, including their social, ecological, and economical aspects Economic impacts of e-waste, including cleanup costs and global loss of valuable resources like metals and plastics Value creation from electronic waste (closing the loop) and future prospects in sustainable development Negative impacts of e-waste, including environmental pollution and human health risks, such as when harmful chemicals leach into water sources Electronic Waste Management serves as a highly valuable resource for anyone involved in the global e-waste arena, including producers, users, recyclers, policymakers, academics, researchers, and health workers, by increasing knowledge and awareness surrounding health and environmental impacts that electronic waste poses.