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Ion Exchange and Solvent Extraction A Series of Advances CRC Press The growth in the world's nuclear industry, motivated by peaking world oil supplies, concerns about the greenhouse effect, and domestic needs for energy independence, has resulted in a heightened focus on the need for next-generation nuclear fuel-cycle technologies. *Ion Exchange and Solvent Extraction: A Series of Advances, Volume 19* provides a comprehensive look at the state of the science underlying solvent extraction in its role as the most powerful separation technique for the reprocessing of commercial spent nuclear fuel. Capturing the current technology and scientific progress as it exists today and looking ahead to potential developments, the book examines the overall state of solvent extraction in reprocessing, new molecules for increased selectivity and performance, methods for predicting extractant properties, and actinide-lanthanide group separation. The contributors also explore the simultaneous extraction of radionuclides by mixing extractants, the cause and nature of third-phase formation, the effects of radiation on the solvent and its performance, analytical techniques for measuring process concentrations, new centrifugal contactors for more efficient processing, and new chemistry using novel media. The long-term vision of many professionals in the field entails a proliferation-free nuclear energy economy in which little or no waste is stored or released into the environment and all potential energy values in spent nuclear fuel are recycled. This text opens a window on that possibility, offering insight from world leaders on the cutting edge of nuclear research. **Advances in Chromatography CRC Press** *Advances in Chromatography* is a venerable series that has reported on the latest state-of-the-art developments in the field for the past four decades. The newest installment, Volume 49, continues the tradition of compiling the work of expert contributors who present timely and cutting edge reviews of current and emerging methods and applications in this dynamic field. Highlights in this edition include: The hyphenation of liquid chromatography with mass spectrometry in order to determine oligonucleotide adducts as markers for cancer Glycoproteomics and the glycosylation of proteins, addressing biomarkers in different types of diseases Chiral separation, an important area particularly in the pharmaceutical industry, where the technique has been applied with varying results Ion-pairing chromatography and analyte retention Conveying the most recent significant scientific developments in separation science, the book and its series are known for the authors' clear presentation of topics and vivid illustrations. Accessible and engaging, this volume forms a solid foundation for the work of biochemists and analytical, organic, polymer, and pharmaceutical chemists at all levels of technical skill. Meticulously referenced, it will help fuel further research across a range of fields. **Advancement in Materials, Manufacturing and Energy Engineering, Vol. I Select Proceedings of ICAMME 2021 Springer Nature** This book (Vol. I) presents select proceedings of the conference on "Advancement in Materials, Manufacturing, and Energy Engineering (ICAMME 2021)." It discusses the latest materials, manufacturing processes, evaluation of materials properties for the application in automotive, aerospace, marine, locomotive, and energy sectors. The topics covered include advanced metal forming, bending, welding and casting techniques, recycling and re-manufacturing of materials and components, materials processing, characterization and applications, materials, composites and polymer manufacturing, powder metallurgy and ceramic forming, numerical modeling and simulation, advanced machining processes, functionally graded materials, non-destructive examination, optimization techniques, engineering materials, heat treatment, material testing, MEMS integration, energy materials, bio-materials, metamaterials, metallography, nanomaterial, SMART materials, bioenergy, fuel cell, and superalloys. The book will be useful for students, researchers, and professionals interested in interdisciplinary topics in the areas of materials, manufacturing, and energy sectors. **Nuclear Science Abstracts Ion Exchange and Solvent Extraction A Series of Advances, Volume 22 CRC Press** Since the Second World War, the field of ion exchange has taken a dominant role in offering solutions to many problems in the developed and developing world. It has evolved to a wide array of applications, including mining, microelectronics, drug delivery and detection, food, fertilizers, chemical cleaning, catalysis, bioseparation, water management, environmental research and practices, and energy. The six chapters in this book represent diverse contributions from researchers around the globe who are making noticeable strides in the field in currently important areas: Brackish water desalination Removing boron from water Sustainable approaches for synthesizing commercially important epoxide building blocks Solid-phase heavy-metal separation Separating concentrated ion mixtures in sorption columns Sensing toxic metals Ion Exchange and Solvent Extraction: A Series of Advances, Volume 22 provides a focused review of new materials and new processes that have developed and are rapidly growing. It describes cutting-edge research and practices in the use of ion exchange for building a cleaner, sustainable world and provides thoughtful insights on what ion exchange may do for us in the future. **Isotopes and Radiation Technology Information Circular Green Chemistry for Dyes Removal from Waste Water Research Trends and Applications John Wiley & Sons** 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 **Ion Exchange and Solvent Extraction Volume 21, Supramolecular Aspects of Solvent Extraction CRC Press** Over the past several decades, the theme of supramolecular chemistry (SC) has permeated nearly all aspects of chemical endeavor. Not surprisingly, it has also pervaded the field of solvent extraction (SX), inspiring the framework for this volume of *Ion Exchange and Solvent Extraction*. In addition, tools for studying aggregation have grown increasingly sophisticated, leading to a greater understanding of what we now recognize as SC phenomena in SX. Volume 21, *Supramolecular Aspects of Solvent Extraction* identifies how supramolecular behavior occurs and is studied in the context of SX and how SC is influencing the direction of SX. With contributions by internationally recognized specialists from different fields, this volume examines how principles of SC are being used in advancing the design of new highly selective SX systems and for understanding aggregation phenomena in SX systems. The book begins with a discussion of the nature and definition of SC and its general use in the design of novel SX reagents. Chapter 2 expands the subject of ion-pair recognition to introduce outer-sphere recognition of metal complexes. Chapter 3 reviews the literature on calixarenes as extraction reagents for metal ions. Chapter 4 extends the utility of this chemistry, describing the use of calixarenes for the extraction of biomolecules. Chapter 5 examines the liquid-liquid interface as an expression of supramolecular phenomena in SX, reviewing interfacial aggregation in model two-phase systems and metal extraction systems. The final chapter explores the problem of aggregation in SX, the historical attempts to understand it, and recent progress that has been made in addressing the issue. **Advanced Dairy Chemistry, Volume 2 Lipids Springer Nature** The *Advanced Dairy Chemistry* series was first published in four volumes in the 1980s (under the title *Developments in Dairy Chemistry*) and revised in three volumes in the 1990s and 2000s. The series is the leading reference on dairy chemistry, providing in-depth coverage of milk proteins, lipids, lactose, water and minor constituents. *Advanced Dairy Chemistry Volume 2: Lipids, Fourth Edition*, is unique in the literature on milk lipids, a broad field that encompasses a diverse range of topics, including synthesis of fatty acids and acylglycerols, compounds associated with the milk fat fraction, analytical aspects, behavior of lipids during processing and their effect on product characteristics, product defects arising from lipolysis and oxidation of lipids, as well as nutritional significance of milk lipids. In the years since the publication of the third edition there have been significant developments in milk lipids and these are reflected in changes to this volume. Most topics included in the third edition are retained in the current edition, which has been updated; in some cases, new authors have given their perspective on certain topics. Chapters on nutritional significance of dairy lipids have been considerably revised. This authoritative work summarizes current knowledge on milk lipids and suggests areas for further work. It will be very valuable to dairy scientists, chemists and others working in dairy research or in the dairy industry. **Water Pollution Control Research Series: Advanced Waste Treatment Research WP-20-AWTR-19 Summary Report, Advanced Waste Treatment, July, 1964 - July, 1967 Progress in Clean Energy, Volume 2 Novel Systems and Applications Springer** This expansive reference provides readers with the broadest available single-volume coverage of leading-edge advances in the development and optimization of clean energy technologies. From innovative biofuel feed stocks and processing techniques, to novel solar materials with record-breaking efficiencies, remote-sensing for offshore wind turbines to breakthroughs in high performance PEM fuel cell electrode manufacturing, phase change materials in green buildings to bio sorption of pharmaceutical pollutants, the myriad exciting developments in green technology described in this book will provide inspiration and information to researchers, engineers and students working in sustainability around the world. **Report of Progress in Warm-air Furnace Research Conducted by the Engineering Experiment Station, University of Illinois in Cooperation with the National Warm-air Heating and Ventilating Association Development of the Advanced Rotary Plow (ARP) for Snow Removal Operations The New Zealand and Australian Bee Journal, Devoted Exclusively to Advanced Bee Culture Encyclopedia of Environmental Management, Four Volume Set CRC Press** Winner of an Outstanding Academic Title Award from CHOICE Magazine *Encyclopedia of Environmental Management* gives a comprehensive overview of environmental problems, their sources, their assessment, and their solutions. Through in-depth entries and a topical table of contents, readers will quickly find answers to questions about specific pollution and management issues. Edited by the esteemed Sven Erik Jørgensen and an advisory board of renowned specialists, this four-volume set shares insights from more than 500 contributors—all experts in their fields. The encyclopedia provides basic knowledge for an integrated and ecologically sound management system. Nearly 400 alphabetical entries cover everything from air, soil, and water pollution to agriculture, energy, global pollution, toxic substances, and general pollution problems. Using a topical table of contents, readers can also search for entries according to the type of problem and the methodology. This allows readers to see the overall picture at a glance and find answers to the core questions: What is the pollution problem, and what are its sources? What is the "big picture," or what background knowledge do we need? How can we diagnose the problem, both qualitatively and quantitatively, using monitoring and ecological models, indicators, and services? How can we solve the problem with environmental technology, ecotechnology, cleaner technology, and environmental legislation? How do we address the problem as part of an integrated management strategy? This accessible encyclopedia examines the entire spectrum of tools available for environmental management. An indispensable resource, it guides environmental managers to find the best possible solutions to the myriad pollution problems they face. Also Available Online This Taylor & Francis encyclopedia is also available through online subscription, offering a variety of extra benefits for researchers, students, and librarians, including: Citation tracking and alerts Active reference linking Saved searches and marked lists HTML and PDF format options Contact us to inquire about subscription options and print/online combination packages. US: (Tel) 1.888.318.2367 / (email) e-reference@taylorandfrancis.com International: (Tel) +44 (0) 20 7017 6062 / (email) online.sales@tandf.co.uk **AMST'05 Advanced Manufacturing Systems and Technology Proceedings of the Seventh International Conference Springer Science & Business Media** Manufacturing a product is not difficult, the difficulty consists in manufacturing a product of high quality, at a low cost and rapidly. Drastic technological advances are changing global markets very rapidly. In such conditions the ability to compete successfully must be based on innovative ideas and new products which has to be of high quality yet low in price. One way to achieve these objectives would be through massive investments in research of computer based technology and by applying the approaches presented in this book. The First International Conference on Advanced Manufacturing Systems and Technology AMST87 was held in Opatija (Croatia) in October 1987. The Second International Conference on Advanced Manufacturing Systems and Technology AMSV90 was held in Trento (Italy) in June 1990. The Third, Fourth, Fifth and Sixth Conferences on Advanced Manufacturing Systems and Technology were all held in Udine (Italy) as follows: AMST93 in April 1993, AMST96 in September 1996, AMST99 in June 1999 and AMST02 in June 2002. **Bachelor's Theses** This is a collection of theses completed to fulfill B.S. requirements in the College of Engineering, University of Wisconsin from 1895 to 1962. **Chemistry for JEE (Main & Advanced) Volume 2 (Class XII) by Career Point, Kota Career Point**

Publication Chemistry for JEE (Main & Advanced) Volume 2 (Class XII) has been designed in keeping with the needs and expectations of students appearing for JEE Main. Its coherent presentation and compatibility with the latest prescribed syllabus and pattern of JEE (as per the latest NTA notification) will prove extremely useful to JEE aspirants. Questions in this book are handpicked by experienced faculty members of Career Point to enhance the following skills of the students - 1. Understanding of concepts and their application to the grass-root level. 2. Improving their scoring ability & accuracy by providing an opportunity to practice a variety of questions. Features of Book are:- · 2700+ Questions with explanatory Solutions · Chapters according to NCERT · All Types of MCQs based on latest pattern · Previous Year Questions since 2005 · 3 Mock Tests for Final Touch

Proceedings of 3rd International Conference on Advanced Computing, Networking and Informatics ICACNI 2015, Volume 1 Springer Advanced Computing, Networking and Informatics are three distinct and mutually exclusive disciplines of knowledge with no apparent sharing/overlap among them. However, their convergence is observed in many real world applications, including cyber-security, internet banking, healthcare, sensor networks, cognitive radio, pervasive computing amidst many others. This two volume proceedings explore the combined use of Advanced Computing and Informatics in the next generation wireless networks and security, signal and image processing, ontology and human-computer interfaces (HCI). The two volumes together include 132 scholarly articles, which have been accepted for presentation from over 550 submissions in the Third International Conference on Advanced Computing, Networking and Informatics, 2015, held in Bhubaneswar, India during June 23-25, 2015. **The Extractor; or Universal repertorium of literature, science, and arts. Vol. 1, 2, [vol. 1, no. 1 is of the 1nd ed. Continued as The Polar star.]. Scientific and Technical Aerospace Reports** 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. **Progress in Physics, vol. 2/2005 The Journal on Advanced Studies in Theoretical and Experimental Physics, including Related Themes from Mathematics Infinite Study** Progress in Physics has been created for publications on advanced studies in theoretical and experimental physics, including related themes from mathematics. **Extract from Report of the Commission on Government Procurement, Volume 2, December 1972 Extract from Report of the Commission on Government Procurement, Volume 2, December 1972, Part C: Acquisition of Major Systems Discussions A-Z Advanced Book and Audio CD A Resource Book of Speaking Activities Cambridge University Press** A photocopiable resource book of speaking activities for intermediate and advanced level students. **Progress Report on Forest Administration in the Punjab Advanced Topics in Shannon Sampling and Interpolation Theory Springer Science & Business Media** Advanced Topics in Shannon Sampling and Interpolation Theory is the second volume of a textbook on signal analysis solely devoted to the topic of sampling and restoration of continuous time signals and images. Sampling and reconstruction are fundamental problems in any field that deals with real-time signals or images, including communication engineering, image processing, seismology, speech recognition, and digital signal processing. This second volume includes contributions from leading researchers in the field on such topics as Gabor's signal expansion, sampling in optical image formation, linear prediction theory, polar and spiral sampling theory, interpolation from nonuniform samples, an extension of Papoulis's generalized sampling expansion to higher dimensions, and applications of sampling theory to optics and to time-frequency representations. The exhaustive bibliography on Shannon sampling theory will make this an invaluable research tool as well as an excellent text for students planning further research in the field. **Developments in Surface Contamination and Cleaning - Vol 2 Particle Deposition, Control and Removal William Andrew Rajiv Kohli and Kash Mittal** have brought together the work of experts from different industry sectors and backgrounds to provide a state-of-the-art survey and best practice guidance for scientists and engineers engaged in surface cleaning or handling the consequences of surface contamination. Topics covered include: A systems analysis approach to contamination control Physical factors that influence the behavior of particle deposition in enclosures An overview of current yield models and description of advanced models Types of strippable coatings, their properties and applications of these coatings for removal of surface contaminants In-depth coverage of ultrasonic cleaning Contamination and cleaning issues at the nanoscale Experimental results illustrating the impact of model parameters on the removal of particle contamination The expert contributions in this book provide a valuable source of information on the current status and recent developments in surface contamination and cleaning. The book will be of value to industry, government and academic personnel involved in research and development, manufacturing, process and quality control, and procurement specifications across sectors including microelectronics, aerospace, optics, xerography and joining (adhesive bonding). ABOUT THE EDITORS Rajiv Kohli is a leading expert with The Aerospace Corporation in contaminant particle behavior, surface cleaning, and contamination control. At the NASA Johnson Space Center in Houston, Texas, he provides technical support for contamination control related to ground-based and manned spaceflight hardware for the Space Shuttle, the International Space Station, and the new Constellation Program that is designed to meet the United States Vision for Space Exploration. Kashmiri Lal "Kash" Mittal was associated with IBM from 1972 to 1994. Currently, he is teaching and consulting in the areas of surface contamination and cleaning, and in adhesion science and technology. He is the Editor-in-Chief of the Journal of Adhesion Science and Technology and is the editor of 98 published books, many of them dealing with surface contamination and cleaning. Also available **Developments in Surface Contamination and Cleaning, Volume 1: Fundamentals and Applied Aspects** (edited by Rajiv Kohli & K.L. Mittal). ISBN: 9780815515555. · Provides guidance on best-practice cleaning techniques and the avoidance of surface contamination · Covers contamination and cleaning issues at the nanoscale · Includes an in-depth look at ultrasonic cleaning **Recent Developments in Separation Science Volume 2 CRC Press** Volume two of the series focuses on the topics of extraction, filtration, heatless adsorption, hydrometallurgical extraction, interfacial phenomena, separation of gases by regenerative sorption, various polymeric membrane systems, such as electro dialysis, ultrafiltration, reverse osmosis. Gas and liquid separations by selective permeation through polymeric membrane, and the origin of separate system. The last topic, as a special feature of interest, provides an analysis of the genesis and development of new separation techniques. **Advanced Computing and Systems for Security: Volume 13 Springer Nature Computer-Aided Developments: Electronics and Communication Proceeding of the First Annual Conference on Computer-Aided Developments in Electronics and Communication (CADEC-2019), Vellore Institute of Technology, Amaravati, India, 2-3 March 2019 CRC Press** The volume comprises of papers presented at the first CADEC-2019 conference held at Vellore Institute of Technology-Andhra Pradesh, Amaravati, India. The book contains computer simulated results in various areas of electronics and communication engineering such as, VLSI and embedded systems, wireless communication, signal processing, power electronics and control theory applications. This volume will help researchers and engineers to develop and extend their ideas in upcoming research in electronics and communication. **Advances in Feature Based Manufacturing Elsevier** Well known researchers in all areas related to featured based manufacturing have contributed chapters to this book. Some of the chapters are surveys, while others review a specific technique. All contributions, including those from the editors, were thoroughly refereed. The goal of the book is to provide a comprehensive picture of the present stage of development of Features Technology from the point of view of applications in manufacturing. The book is aimed at several audiences. Firstly, it provides the research community with an overview of the present state-of-the-art features in manufacturing, along with references in the literature. Secondly, the book will be useful as supporting material for a graduate-level course on product modeling and realization. Finally, the book will also be valuable to industrial companies who are assessing the significance of features for their business. **Advanced Textile Materials Trans Tech Publications Ltd** Volume is indexed by Thomson Reuters CPCI-S (WoS) This book, comprising internationally peer-reviewed papers, covers the subject areas of natural fibers, chemical fibers, fiber manufacturing technology, principles of textile design, structure, properties and processing of textile materials, measurement technology and instrumentation, non-woven materials, structure, properties and processing of non-woven materials, coloration technology, finishing technology, pollution control and treatment of dyeing and finishing, materials and their applications, materials processing technologies and other related topics. The volume will be of interest to anyone working in these fields. **Understanding the Potential of Epigallocatechin -3-gallate, a Green Tea Extract in Different Treatments..A comprehensive Review. Dr.Hakim Saboowala** Green tea is made from unfermented dried leaves from *Camellia sinensis* and has been consumed by humans for thousands of years. For nearly as long, it has been used as a folk remedy for a wide array of diseases Epigallocatechin-3-gallate (EGCG), a component extracted from green tea, has been proved to have multiple effects on human pathological and physiological processes, and its mechanisms are discrepant in cancer, vascularity, bone regeneration, and nervous system. Although there are multiple benefits associated with EGCG, more and more challenges are still needed to get through. · For example, EGCG shows low bioactivity via oral administration. An attempt has been made as usual in this Booklet to focus on effects of EGCG, including anti-cancer, antioxidant, anti-inflammatory, anti-collagenase, and antifibrosis effects, to express the potential of EGCG and necessity of further studies in this field and to discuss comprehensively some of the challenges and future perspectives.Dr.H.K.Saboowala. M.B.(Bom) M.R.S.H.(London) **Advances in Multimedia Modeling 19th International Conference, MMM 2012, Huangshan, China, January 7-9, 2012, Proceedings, Part II Springer** The two-volume set LNCS 7732 and 7733 constitutes the thoroughly refereed proceedings of the 19th International Conference on Multimedia Modeling, MMM 2012, held in Huangshan, China, in January 2013. The 30 revised regular papers, 46 special session papers, 20 poster session papers, and 15 demo session papers, and 6 video browser showdown were carefully reviewed and selected from numerous submissions. The two volumes contain papers presented in the topical sections on multimedia annotation I and II, interactive and mobile multimedia, classification, recognition and tracking I and II, ranking in search, multimedia representation, multimedia systems, poster papers, special session papers, demo session papers, and video browser showdown. **Advancement of Women A Bahá'í Perspective Baha'i Publishing Trust** The equality of women and men is one of the basic tenets of the Baha'i Faith, and much is said on the subject in the Baha'i writings. Until now, however, no single volume created for a general audience has provided comprehensive coverage of the Baha'i teachings on this topic and its many aspects. In this broad survey husband and wife team Janet and Peter Khan address even those aspects of equality of the sexes that are usually ignored or glossed over in the existing literature. **Natural Beverages Volume 13: The Science of Beverages Academic Press** Natural Beverages, Volume Thirteen, in the Science of Beverages series, takes a multidisciplinary approach to address the shifting beverage landscape towards the global trend of natural beverages. As global beverage consumption has progressed towards healthier and 'natural' ingredients, researchers and scientists need to understand the latest scientific developments and the proposed health benefits and improved effects. Classical examples are presented as a basis for innovation expansion to help new researchers understand this segment of the industry. This is a great resource for researchers and scientists in the beverages industry. Describes natural beverage production and its impact on nutritional value Provides overall coverage of hot topics and scientific principles in the beverage industry Explores the pros and cons of natural vs. artificial beverages in product development Covers the production of all commonly consumed 'natural' beverages **Advanced Particle Physics Two-Volume Set Taylor & Francis** Providing a complete foundation to comprehend the physics of the microworld, Advanced Particle Physics, Two-Volume Set develops the models, theoretical framework, and mathematical tools to understand current experiments and make predictions for future experiments. The set brings together a vast array of topics in modern particle physics and distill **Advanced Concepts for Intelligent Vision Systems 17th International Conference, ACIVS 2016, Lecce, Italy, October 24-27, 2016, Proceedings Springer** This book constitutes the refereed proceedings of the 17th International Conference on Advanced Concepts for Intelligent Vision Systems, ACIVS 2016, held in Lecce, Italy, in October 2016. The 64 revised full papers presented in this volume were carefully selected from 137 submissions. They deal with classical low-level image processing techniques; image and video compression; 3D; security and forensics; and evaluation methodologies.