



Recent Advances In Adsorption And Ion Exchange

Ensheng Dong



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Recent Advances in Adsorption and Ion Exchange Y. H. Ma, 1982
Exchange, Recent Advances in Adsorption and Ion Exchange, 1982
New Directions in Sorption Technology George E. Keller, Ralph T. Yang, 2013-10-22
New Directions in Sorption Technology focuses on the developments in sorption technology including sorbents chromatography pressure swing adsorption and bioseparations involving sorption The selection first offers information on coherence concept an overview of coherence in the chromatographic movement of surfactant mixtures and technological maturity of sorption processes and sorbents The book then ponders on kinetic separation of air by pressure swing adsorption conception of a new adsorption process for purifying landfill gas at the Kapiteltal Landfill Site in West Germany and sizing of vacuum pumps for desorption in PSA systems The manuscript takes a look at the evaluation of macroreticular resins as gas vapor sorbents to rival active carbons and use of surfactant enhanced carbon regeneration to remove volatile organics from spent activated carbon Discussions focus on characterization of pores development of porous polymers cleaning and resin preparation The novel applications of continuous annular chromatography and chromatographic study of aqueous phase adsorption on activated carbon fiber with bacterial growth are also mentioned The selection is a valuable source material for chemists and readers interested in sorption technology

Recent Advances in Trace Elements Katarzyna Chojnacka, Agnieszka Saeid, 2018-04-30
Comprehensive and multidisciplinary presentation of the current trends in trace elements for human animals plants and the environment This reference provides the latest research into the presence characterization and applications of trace elements and their role in humans animals and plants as well as their use in developing novel functional feeds foods and fertilizers It takes an interdisciplinary approach to the subject describing the biological and industrial applications of trace elements It covers various topics such as the occurrence role and monitoring of trace elements and their characterization as well as applications from the preliminary research to laboratory trials *Recent Advances in Trace Elements* focuses on the introduction and prospects of trace elements tackles environmental aspects such as sources of emission methods of monitoring and treatment remediation processes goes over the biological role of trace elements in plants animals and human organisms and discusses the relevance of biomedical applications and commercialization A compendium of recent knowledge in interdisciplinary trace element research Uniquely covers production and characterization of trace elements as well as the industrial and biomedical aspects of their use Paves the way for the development of innovative products in diverse fields including pharmaceuticals food environment and materials science Edited by well known experts in the field of trace elements with contributions from international specialists from a wide range of areas Unique in presenting comprehensive and multidisciplinary information of the key aspects of trace elements research in a digestible form this book is essential reading for the novice and expert in the fields of environmental science analytical chemistry biochemistry materials science pharmaceutical science nutraceutical and

pharmaceutical sciences It is also valuable for companies that implement new products incorporating trace elements to the market

Recent Advances in the Science and Technology of Zeolites and Related Materials, 2004-12-18 **Recent Advances in the Science and Technology of Zeolites and Related Materials**

Microbial Enhancement of Oil Recovery - Recent Advances E.C. Donaldson, 1991-04-03 This conference was instituted to examine field activities in Microbial Enhancement of Oil Recovery The U S Department of Energy has sponsored several field projects and the details from some of these were presented as well as a few from industry The balance of the program was concerned with new developments in research Today s oil production technology leaves one third to one half of the original oil in place in the reservoir at abandonment of secondary recovery waterflooding This leaves a very large target for microbial enhanced oil recovery which was shown by the research papers of this conference to be capable of producing up to 50% of the residual oil The field trials show that the normal projected oil production decline curve can be reversed or leveled off by microbial enhancement of oil recovery This conference has shown that a variety of applications are possible to correct oilfield problems as well as to enhance oil recovery Among these is the suppression of hydrogen sulfide production which alone is a tremendous advance because of the large quantity of sour oil production If hydrogen sulfide production can be curtailed it would increase the value of the produced oil decrease its toxicity and largely decrease its corrosiveness All of these would be welcome both in the field and at the petroleum refinery where special precautions must be taken to process sour crude oil Another very important discovery is the ability of certain bacteria to eliminate paraffin deposition around the producing well and in the tubulars This is a welcome improvement for many producers who have considerable difficulty in controlling paraffin deposition

Recent Advances in Separation Techniques III Norman N. Li, 1986

Recent Advances in Sustainable Waste Management Practices Kunwar D. Yadav, Namrata D. Jariwala, Amit Kumar, Alok Sinha, 2023-09-07 This book comprises the select proceedings of the national level conference on Sustainable Waste Management Practices SWMP 2023 The content focuses on industrial wastewater treatment solid and hazardous waste management municipal plastic biomedical construction and demolition waste management e waste management leachate treatment case studies on best practices among others for waste management This book is of immense interest to researchers in academia and industry working in the fields of environmental and civil engineering

New Developments in Fluidization and Fluid-particle Systems Wen-ching Yang, 1987

Recent Advances in Bioremediation and Phytoremediation Ananya Kuanar, Dattatraya Kar, Alok Prasad Das, Dipalee Bhanja, 2025-07-03 This book focuses on a number of recently created and successfully used bio phytoremediation technologies for pollution reduction and control that were not given more thorough discussion in earlier works The earth s crust contains heavy metals naturally as one of its constituents The main cause of the discharge of harmful metals into the soil and aquatic habitats aside from natural sources is man made activity particularly industrialization As a result of various human activities excessive amounts of heavy metals including chromium arsenic lead mercury copper and zinc are released

into the environment These metals eventually contaminate agricultural soils and water bodies and have a negative effect on the ecosystem Additionally even at very low concentrations heavy metal poses a dangerous threat to both humans and animals due to its tremendous toxicity Appropriate remediation technology is needed to address the problems caused by toxic heavy metal contamination The technology should be affordable eco friendly and provide long term solutions Such required properties are offered by biological remediation approaches such as microbial and phytoremediation for the treatment of heavy metal contamination The discussion of biological remediation technologies as a sustainable method involves several techniques involved in the removal of harmful heavy metals

Recent Advancement in White Biotechnology Through Fungi

Ajar Nath Yadav,Sangram Singh,Shashank Mishra,Arti Gupta,2019-10-01 Over the last decade considerable progress has been made in white biotechnology research and further major scientific and technological breakthroughs are expected in the future The first large scale industrial applications of modern biotechnology have been in the areas of food and animal feed production agricultural green biotechnology and in pharmaceuticals medical red biotechnology In contrast the productions of bioactive compounds through fermentation or enzymatic conversion are known as industrial or white biotechnology The fungi are ubiquitous in nature and have been sorted out from different habitats including extreme environments high temperature low temperature salinity and pH and associated with plants Epiphytic Endophytic and Rhizospheric The fungal strains are beneficial as well as harmful for human beings The beneficial fungal strains may play important roles in the agricultural industrial and medical sectors The fungal strains and its product enzymes bioactive compounds and secondary metabolites are very useful for industry e g the discovery of penicillin from *Penicillium chrysogenum* This discovery was a milestone in the development of white biotechnology as the industrial production of penicillin and antibiotics using fungi moved industrial biotechnology into the modern era transforming it into a global industrial technology Since then white biotechnology has steadily developed and now plays a key role in several industrial sectors providing both high value nutraceutical and pharmaceutical products The fungal strains and bioactive compounds also play an important role in environmental cleaning This volume covers the latest research developments related to value added products in white biotechnology through fungi

Recent Advances in Mineral Processing Plant Design Deepak Malhotra,2009 A compilation of engaging and insightful papers from the prestigious 2009 Plant Design Symposium the volume is a sequel to *Mineral Processing Plant Design Practice and Control* an industry standard published in 2002 Both books are indispensable texts for university level instruction as well as valuable guides for operators considering new construction plant renovation or expansion You ll learn the role of innovation how to finance and conduct feasibility studies and how to reduce your plant s carbon footprint

Water Treatment Unit Processes David W. Hendricks,2018-10-03 The unit process approach common in the field of chemical engineering was introduced about 1962 to the field of environmental engineering An understanding of unit processes is the foundation for continued learning and for designing treatment systems

The time is ripe for a new textbook that delineates the role of unit process principles in environmental engineering Suitable for a two semester course Water Treatment Unit Processes Physical and Chemical provides the grounding in the underlying principles of each unit process that students need in order to link theory to practice Bridging the gap between scientific principles and engineering practice the book covers approaches that are common to all unit processes as well as principles that characterize each unit process Integrating theory into algorithms for practice Professor Hendricks emphasizes the fundamentals using simple explanations and avoiding models that are too complex mathematically allowing students to assimilate principles without getting sidelined by excess calculations Applications of unit processes principles are illustrated by example problems in each chapter Student problems are provided at the end of each chapter the solutions manual can be downloaded from the CRC Press Web site Excel spreadsheets are integrated into the text as tables designated by a CD prefix Certain spreadsheets illustrate the idea of scenarios that emphasize the idea that design solutions depend upon assumptions and the interactions between design variables The spreadsheets can be downloaded from the CRC web site The book has been designed so that each unit process topic is self contained with sidebars and examples throughout the text Each chapter has subheadings so that students can scan the pages and identify important topics with little effort Problems references and a glossary are found at the end of each chapter Most chapters contain downloadable Excel spreadsheets integrated into the text and appendices with additional information Appendices at the end of the book provide useful reference material on various topics that support the text This design allows students at different levels to easily navigate through the book and professors to assign pertinent sections in the order they prefer The book gives your students an understanding of the broader aspects of one of the core areas of the environmental engineering curriculum and knowledge important for the design of treatment systems

Recent Advances in Distillery Waste Management for Environmental Safety Vineet

Kumar, Pankaj Chowdhary, Maulin P Shah, 2021-09-21 The safe disposal of distillery waste into the environment as well as its recycling and management has become a hot topic in developing countries including India This gross misconduct creates serious environmental and public health hazards Thus adequate management of waste has become a priority of environmental engineers and biotechnologists for environmental safety and sustainable development Recent Advances in Distillery Waste Management for Environmental Safety covers specific advanced and updated knowledge on various developed individual and or innovative green and emerging plant microbe based technologies uses for the management and recycling of distillery waste in an environmentally friendly and cost effective manner for sustainable development Moreover this book provides comprehensive state of the art information on the physicochemical properties chemical composition and environmental risks associated with distillery waste Furthermore the book also discusses various existing methods and technologies up gradation of existing technologies the advent of newer technologies for the treatment processing and disposal of distillery waste and focus areas for further development This broad and unique coverage allows treatment firms

and regulatory authorities to determine and develop appropriate treatment strategies for site specific problems of distillery waste remediation Features Provides practical solutions for the treatment and recycling of distillery waste illustrated by specific case studies Focuses on recent industry practices and preferences along with newer approaches for wastewater treatment An instructive compilation of treatment approaches including advanced physicochemical and integrated sequential methods Covers biocomposting of sludge and effluent and biodiesel production from distillery waste for recycling and sustainable development Emphasizes the relationship of metagenomics with organometallic compounds of distillery waste Discusses the role of ligninolytic enzymes and bioreactors in distillery wastewater treatment This book serves as an accessible reference to assist engineering consultants industrial waste managers policy makers environmental engineers government implementers researchers scientists and a wide range of professionals responsible for regulating monitoring and designing industrial wastewater treatment techniques who aspire to work on the reclamation recycling and management of distillery waste or wastewater pollutants for environmental safety and sustainable development

Recent Advances in Civil Engineering Lakshman Nandagiri, M. C. Narasimhan, Shriram Marathe, 2022-06-26 This book presents the select

proceedings of the International Conference on Civil Engineering Trends and Challenges for Sustainability CTCS 2021 It discusses emerging and latest research and advances in sustainability in different areas of civil engineering providing solutions to sustainable development Various topics covered include sustainable construction technology structural engineering transportation and traffic engineering geotechnical engineering environmental engineering water resources engineering remote sensing and GIS applications This book will be of potential interest to researchers and professionals working in sustainable civil engineering and related fields

Recent Advances in Environmental Science from the Euro-Mediterranean and Surrounding Regions Amjad Kallel, Mohamed Ksibi, Hamed Ben Dhia, Nabil Khélifi, 2017-12-12

This volume includes the papers presented during the 1st Euro Mediterranean Conference for Environmental Integration EMCEI which was held in Sousse Tunisia in November 2017 This conference was jointly organized by the editorial office of the Euro Mediterranean Journal for Environmental Integration in Sfax Tunisia and Springer MENA Publishing Program in Germany It aimed to give a more concrete expression to the Euro Mediterranean integration process by supplementing existing North South programs and agreements with a new multilateral scientific forum that emphasizes in particular the vulnerability and proactive remediation of the Euro Mediterranean region from an environmental point of view This volume gives a general and brief overview on current research focusing on emerging environmental issues and challenges and its applications to a variety of problems in the Euro Mediterranean zone and surrounding regions It contains over five hundred and eighty carefully refereed short contributions to the conference Topics covered include 1 innovative approaches and methods for environmental sustainability 2 environmental risk assessment bioremediation ecotoxicology and environmental safety 3 water resources assessment planning protection and management 4 environmental engineering and management 5

natural resources characterization assessment management and valorization 6 intelligent techniques in renewable energy biomass wind waste solar 7 sustainable management of marine environment and coastal areas 8 remote sensing and GIS for geo environmental investigations 9 environmental impacts of geo natural hazards earthquakes landslides volcanic and marine hazards and 10 the environmental health science natural and social impacts on Human health Presenting a wide range of topics and new results this edited volume will appeal to anyone working in the subject area including researchers and students interested to learn more about new advances in environmental research initiatives in view of the ever growing environmental degradation in the Euro Mediterranean region which has turned environmental and resource protection into an increasingly important issue hampering sustainable development and social welfare **Research and Development**

Progress Report United States. Office of Saline Water,1965 *Recent Advances in Natural Products Science* Ahmed Al-Harrasi,Saurabh Bhatia,Tapan Behl,Mohammed F. Aldawsari,Deepak Kaushik,Sridevi Chigurupati,2022-07-21 This book provides a summarized information related to the global herbal drug market and its regulations ethnopharmacology of traditional crude drugs isolation of phytopharmaceuticals phytochemistry standardization and quality assessment of crude drugs Natural products science has constantly been developing with comprehensive data contemplating different parts of natural drugs such as global trade quality control and regulatory concerns traditional medicine systems production and utilization of drugs and utilization of medicinal and aromatic plants This broad information about crude drugs gives rise to a subject that is now recognized as advance natural products science By contemplating all of this thorough knowledge of the areas this book is intended to provide considerably to the natural products science The area of natural products science involves a broad range of topics such as the pharmacognostical phytochemical and ethno pharmacological aspects of crude drugs Each chapter gives a sufficient understanding to academicians and researchers in the respective topic This book includes 40 illustrations and descriptions of roughly 80 medicinal plants used for herbal medicine The book is an imperative source for all researchers academicians students and those interested in natural products science **FEATURES** Includes advance knowledge and detailed developments in natural products science Discusses the most important phytopharmaceuticals used in the pharmaceutical industry Explores the analysis and classification of novel plant based medicinal compounds Includes standardization quality control and global trade of natural products Gives a deep understanding related to recent advances in herbal medicines to treat various ailments Discusses national and WHO regulations and policies related to herbal medicines Covers the complete profile of some important traditional medicinal plants especially their historical background biology and chemistry *Recent Advances in Chemistry and Technology of Fats and Oils* R. J. Hamilton,2012-12-06 Since we produced *Fats and Oils Chemistry and Technology* in 1980 the trend we anticipated to up date the classical texts of oils and fats has manifested itself Bailey s famous textbook has been completely revised and a second edition of Bernardini s work has been produced The present text is an attempt to provide some insight

into the current state of the art Chapter 1 discusses the physical properties of oils and fats with special reference to those properties which can be monitored to give an indication of the suitability of fats for chocolate production The physical properties of the fats are often determined by the order in which the fatty acids are attached to the glyceride molecule Ram Bhati in the last article he wrote before his death showed how mass spectrometry and chemical methods could be used to determine the sequence of fatty acids Ram's essentially practical approach to the problem is exemplified by the section dealing with the experimental details of the techniques Chapter 3 outlines some of the problems which can arise in industry when the lipid part of a foodstuff undergoes oxidation whilst in Chapter 4 Patterson describes the major technique hydrogenation which is used to circumvent the problems caused by oxidation of the unsaturated fatty acids In Chapter 4 the essentials of the theory are given to enable the reader to appreciate the design features of the apparatus Chapter 5 deals with the analysis mainly chromatographic of lipids

Decoding **Recent Advances In Adsorption And Ion Exchange**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Recent Advances In Adsorption And Ion Exchange**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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