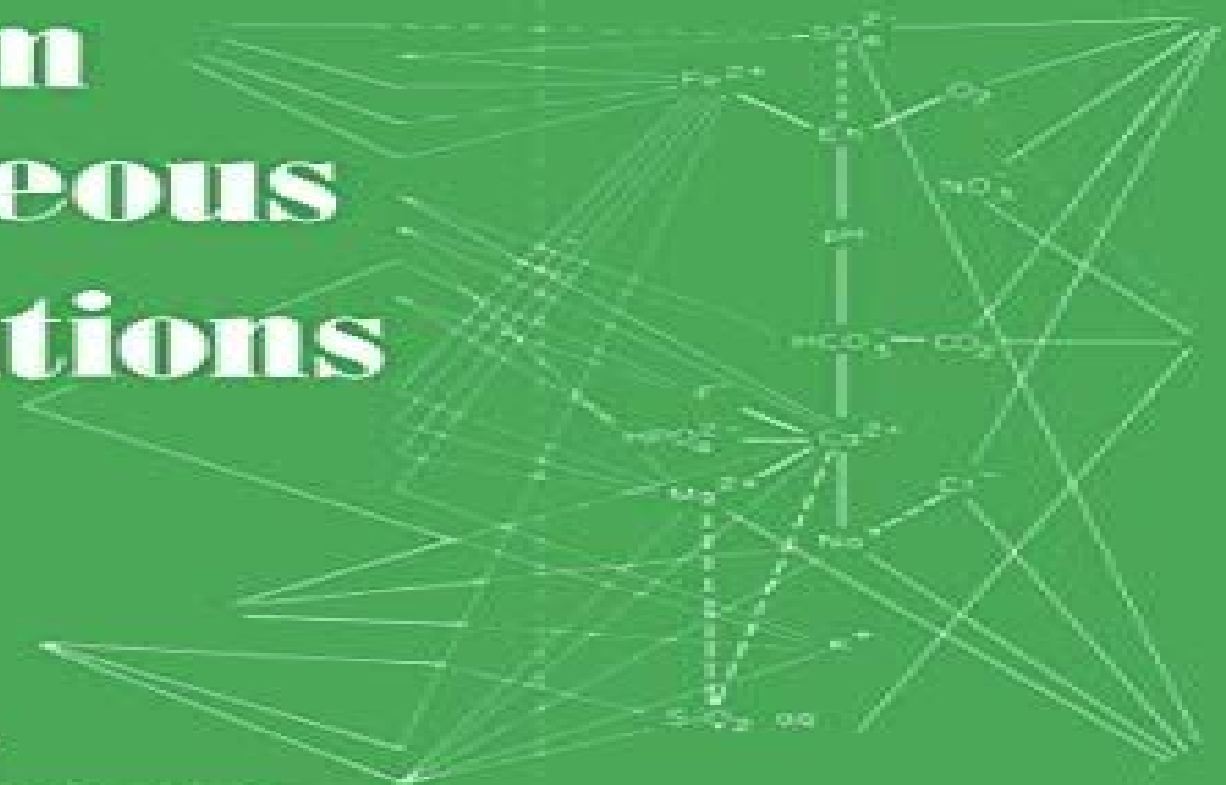


Adsorption From Aqueous Solutions

Edited by
P.H. TEWARI



Adsorption From Aqueous Solutions

Ying Fu



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Adsorption from aqueous solutions P. H. Tewari, 1965

Adsorption From Aqueous Solutions P.H.

Tewari, 2012-12-06 Adsorption from aqueous solutions is important in many technological areas like water purification mineral beneficiation soil conservation detergency and many areas of biology Recently adsorption of radionuclides from aqueous solutions has become the focus of attention in assessing the movement of radionuclides through a geologic medium from underground radioactive waste repositories This volume provides a multidisciplinary overview of current work in the area of adsorption from aqueous solutions and reviews the progress that has been made in the theoretical models for assessing adsorption Adsorption of heavy metal ions and the effect of complex formation is treated extensively as are the effects of surface chemical properties of the adsorbent solution pH and thermodynamic parameters important in the adsorption process Adsorption of pesticides and organic polymeric species on different adsorbents are included and implications of adsorption of ions on dental materials are discussed Also included are studies of the adsorption of radionuclides by geologic media under environmental conditions The study of the chemical nature of the adsorbed species at the surface by X ray photoelectron spectroscopy which often provides mechanistic information for the adsorption process is included for adsorbed metal ions on clay and mineral surfaces

Kinetics of Metal Ion Adsorption from Aqueous Solutions

Sotira Yiaccoumi, Chi Tien, 2013-11-27 This monograph is intended to provide a systematic presentation of theories concerning the adsorption of metal ions from aqueous solutions onto surfaces of natural and synthetic substances and to outline methods and procedures to estimate the extent and progress of adsorption As heavy metals and the problems associated with their transport and distribution are of serious concern to human health and the environment the materials presented in this volume have both theoretical and practical significance In writing this monograph one of our goals was to prepare a book useful to environmental workers and practicing engineers For this reason our presentation relies heavily on concepts commonly used in the environmental engineering literature In fact the volume was prepared for readers with a basic understanding of environmental engineering principles and some knowledge of adsorption processes No prior familiarity with the ionic solute adsorption at solid solution interfaces is assumed Instead introduction of the necessary background information was included Generally speaking metal ion adsorption may be studied in terms of three distinct but interrelated phenomena surface ionization complex formation and the formation and presence of an electrostatic double layer adjacent to adsorbent surfaces Analyses of these phenomena with various degrees of sophistication are xviii ADSORPTION OF METAL IONS FROM AQUEOUS SOLUTIONS presented and their various combinations yield different models that describe metal ion adsorption

Adsorption from Aqueous Solution, 1968

Adsorption from Aqueous Solutions by Silica Ying Fu, 1928

Adsorption from Aqueous Solutions Robert F. Gould, 1968

Surfactants and Interfacial Phenomena Milton J.

Rosen, 2004-09-21 This book is the premier text on the properties and applications of surfactants The third edition is

completely updated and revised including new information on gemini surfactants a new type of powerful surfactant superspreading or superwetting by aqueous surfactant solutions of highly hydrophobic surfaces important in agricultural applications and dynamic surface tension an important interfacial property not covered in the first two editions Clearly explains the mechanisms by which surfactants operate in interfacial processes Uses a minimum of mathematics in explanation of topics making it easy to understand and very user friendly Problems are included at the end of each chapter Includes many tables of data as reference that are not compiled elsewhere Milton J Rosen is an expert in the field of Surfactant research

Adsorption from Aqueous Solution, 1968 Studies in Adsorption Ying Fu, 1928 *Adsorption from Aqueous Solutions of Surface-active Agents* by Gold B. D. Sparks, 1967 **Adsorption from Aqueous Solutions**, 1981

Emerging Compounds Removal from Wastewater Giusy Lofrano, 2012-03-31 In the last years the release of emerging pollutants such as Endocrine Disruptors EDCs Pharmaceuticals and Personal Care Products PPCPs into the environment has raised great concern While investigating how to treat emerging pollutants from water and wastewater researchers have drawn attention on the implementation of more environmentally friendly technologies able to achieve high removal efficiency at low costs Emerging Compounds Removal from Wastewater by Green Technologies Natural and Solar Based Treatments introduces green chemistry in relation to these treatment technologies More specifically this volume Reviews the suitability of alternative adsorption processes that use natural adsorbents natural materials or agricultural waste in light of the inefficiency of conventional wastewater treatment plants Evaluates the potential of constructed wetlands for the removal of some categories of trace contaminant of worldwide relevance in view of their application as decentralized systems Highlights the promising role of a special class of oxidation techniques defined as Advanced Oxidation Processes AOPs supported by sunlight This volume will be of great interest to students technicians and academics alike who are interested in evaluating and selecting the technologies that lead to better and more sustainable treatment of this huge class of pollutants

Advanced Materials for Wastewater Treatment Shahid Ul Islam, 2017-09-21 This comprehensive book deals with the use of novel materials such as plant derived agents and advanced nanocomposites for the removal of heavy metals nitrates and synthetic dyes Water is an essential component for living organisms on planet earth and its pollution is one of the critical global environmental issues today The influx of significant quantities of organic and inorganic waste sediments surfactants synthetic dyes sewage and heavy metals into all types of water bodies has been increasing substantially over the past century due to rapid industrialization population growth agricultural activities and other geological and environmental changes These pollutants are very dangerous and are posing serious threat to us all Advanced Materials for Wastewater Treatment brings together innovative methodologies and research strategies to remove toxic effluents from wastewaters With contributions from leading scientists from all around the world the book provides a comprehensive coverage of the current literature up to date overviews of all aspects of toxic chemical remediation including the role of nanomaterials Together they showcase in a

very lucid manner an array of technologies that complement the traditional as well as advanced treatment practices of textile effluents In particular the book provides Up to date overviews of all aspects of toxic chemical remediation The role of plants and abundantly available agro wastes in the remediation of wastewater The removal of nitrates from wastewater using nanocomposites *Adsorption from Aqueous Solutions* Param H. Tewari,1981 **Nanomaterials in the Wet Processing of Textiles** Shahid Ul Islam,B. S. Butola,2018-02-07 Nanotechnology has attracted attention of textile and polymer scientists and has been playing extraordinary role over the past few decades in the functional finishing of different textile materials Nanoparticles due to their diverse functions have not only imparted flame retardant UV blocking water repellent self cleaning and antimicrobial properties to the textiles but also have greater affinity for fabrics leading to an increase in durability of the functions This book emphasizes recent approaches and strategies that are currently at operation to functionalize both natural and synthetic textile materials using diverse nanoparticles and their composites with polymers The book concludes by paying attention towards removal of toxic chemicals using state of the art nano adsorbents Main Topics 1 Textile dyeing using metallic nanoparticles 2 Metal oxide nanoparticles for multifunctional finishing 3 New approaches to produce UV protective textiles 4 Polymeric nanocomposites for antimicrobial finishing 5 Self cleaning of textiles using advanced nanoparticles 6 Silver nanoparticles in dyeing and finishing applications 7 Zinc Oxide prospects in textile industry 8 Titanium dioxide Next generation photo catalysts 9 Textile effluent using chitosan nanocomposites 10 Recent advances in remediation of textile effluents using nano catalysts *Nanomaterials from Clay Minerals* Aiqin Wang,Wenbo Wang,2019-08-15 *Nanomaterials from Clay Minerals A New Approach to Green Functional Materials* details the structure properties and modification of natural nanoscale clay minerals and their application as the green constituent of functional materials Natural nanomaterials from clay minerals have diverse morphologies from 1D to 3D including nanorods nanofibers nanotubes nanosheets and nanopores These structures show excellent adsorption reinforcing supporter electronic catalytic and biocompatible properties and are great as sustainable alternatives for toxic or expensive artificial materials This book provides systematic coverage of clay nanomaterials as eco friendly resources emphasizing the importance of such materials in a range of industries including biomedicine energy and electronics This book will provide an important reference for materials scientists and engineers who have an interest in sustainable material development Presents systematic coverage of a broad range of nanomaterials from clay minerals including Kaolinite Smectite and Halloysite Depicts use cases for each mineral in a variety of applications such as drug delivery agriculture and in the reinforcement of polymer materials Provides an overview on the advantages and limitations of nanomaterials from clay minerals as well as chapters on the future potential of such materials **Green Chemistry for Dyes Removal from Waste Water** Sanjay K. Sharma,2015-02-25 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

Industrial Applications of Marine Biopolymers Parappurath Narayanan Sudha,2017-07-06 Industrial Applications of Marine Biopolymers presents different classes of marine biopolymers and their industrial applications demonstrating the precious value of ocean resources to society This timely volume discusses the exceedingly useful polymers derived from these materials that are biodegradable biocompatible and at times water soluble Direct use or chemically modified forms of such biomaterials have many chemical sites making them suitable for varied types of industrial applications In addition this book also addresses current global challenges of conservation including extended drought conditions and the need for improved agricultural methods together with new bio medical developments It is suitable for anyone who has an interest in the industrial applications of biopolymers **The Journal of Physical Chemistry** ,1920 **Handbook of Advanced**

Industrial and Hazardous Wastes Management Lawrence K. Wang,Mu-Hao S. Wang,Yung-Tse Hung,Nazih K. Shammash, Jiaping Paul Chen,2017-10-30 This volume provides in depth coverage of environmental pollution sources waste characteristics control technologies management strategies facility innovations process alternatives costs case histories effluent standards and future trends in waste treatment processes It delineates methodologies technologies and the regional and global effects of important pollution control practices It focuses on specific industrial and manufacturing wastes and their remediation Topics include heavy metals electronics chemical and textile manufacturing

Reviewing **Adsorption From Aqueous Solutions**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Adsorption From Aqueous Solutions**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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