

CHEMICAL ENGINEERING KINETICS

J. M. SMITH

THIRD EDITION



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Ji Whan Ahn



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Innovative Solutions in Fluid-Particle Systems and Renewable Energy Management Tannous, Katia, 2015-07-01

The threat of natural resource depletion due to high energy demands has become a key concern in both the developed and developing worlds To alleviate these concerns researchers around the world are exploring sustainable methods for generating energy Innovative Solutions in Fluid Particle Systems and Renewable Energy Management presents phenomenological experimental and theoretical research as well as market criteria and business models concerning the development of small and large scale chemical and energy plants Associating academic and industrial experiences this book highlights current topics in sustainable energy management and development with an emphasis on obtaining liquid gaseous and solid fuels using residues and energetic biomasses Academicians researchers and technology developers will find this book useful in furthering their own knowledge and research in this field A pivotal publication in the field of engineering this title covers a range of topics including among others cellulosic feedstock agricultural biomass fluid dynamics gasification processes energy extraction from raw materials and environmental sustainability

Optimization of Pharmaceutical Processes Antonios Fytopoulos, Rohit Ramachandran, Panos M. Pardalos, 2022-04-06 Optimization of Pharmaceutical Processes presents contributions from leading authorities in the fields of optimization and pharmaceutical manufacturing Formulated within structured frameworks practical examples and applications are given as guidance to apply optimization techniques to most aspects of pharmaceutical processes from design to lab and pilot scale and finally to manufacturing The increasing demand for better quality higher yield more efficient optimized and green pharmaceutical processes indicates that optimal conditions for production must be applied to achieve simplicity lower costs and superior yield The application of such methods in the pharmaceutical industry is not trivial Quality of the final product is of major importance to human health and the need for deep knowledge of the process parameters and the optimization of the processes are imperative The volume which includes new methods as well as review contributions will benefit a wide readership including engineers in pharmaceuticals chemical biological to name just a few

Handbook of Metal-Microbe Interactions and Bioremediation Surajit Das, Hirak Ranjan Dash, 2017-04-07 Around the World metal pollution is a major problem

Conventional practices of toxic metal removal can be ineffective and or expensive delaying and exacerbating the crisis Those communities dealing with contamination must be aware of the fundamentals advances of microbe mediated metal removal practices because these methods can be easily used and require less remedial intervention This book describes innovations and efficient applications for metal bioremediation for environments polluted by metal contaminants

Emerging Technologies and Solutions for the Sustainable Climate Change Challenges Ji Whan Ahn, 2021-04-22 The Special Issue book introduces advanced techniques and research that have helped to reduce CO₂ emissions and to use CO₂ for the manufacturing of valuable products This book refers the research trends and emerging technologies contributing to the

mitigation of current climate change It covers multidisciplinary research topics such as carbon mineralization solid waste management and convergence technologies for sustainable solutions for climate change

Bio-organic Amendments for Heavy Metal Remediation Allah Ditta,Sajid Mehmood,Muhammad Imtiaz,Mike S Tu,2024-07-23 Bio organic Amendments for Heavy Metal Remediation Water soil and plant focuses on these core continuum media to explore remediation options using microbial organic and combined approached A volume in the Plant Biology Sustainability and Climate Change series this book offers a comprehensive view of techniques and approaches for addressing contamination by heavy metals As anthropogenic activities increasingly negatively impact natural resources there has been significant disturbance of water soil and plant continuum due to the accumulation of heavy metals The bioaccumulation of heavy metals in the food chain could pose life threatening effects on plants as well as humans and there is need to find effective and sustainable remediation options The application of bio organic amendments could serve as a sustainable solution to this problem Employing microbial organic and combined approaches to reduce the accumulation of heavy metals in the food chain ultimately would lead to the production of safe food for humans This book provides a comprehensive view of the challenge with a focus on the bioremediation of heavy metals contamination using ecotechnological approaches to protecting the soil water and plant continuum Highlights remediation techniques approaches for heavy metals under water soil and plant continuums Presents case studies for real world insights as well as current practices Includes regulatory aspects for ensuring safe implementation

Metals in Water Sushil Kumar Shukla,Sunil Kumar,Sughosh Madhav,Pradeep Kumar Mishra,2022-10-15 Metals in Water Global Sources Significance and Treatment covers metal pollution in water where they come from their effects and remediation processes Sections overview heavy metals pollution including their global health impacts and remediation measures Geogenic and anthropogenic input of heavy metals in water are described along with global case studies step by step methods on remediation techniques different detection sensors and assessment practices of toxicity of heavy metals The book focuses on recent research surrounding heavy metals contamination in water resources and its impact across the globe Chapters incorporate both theoretical and practical aspects and serve as baseline information for water resources studies This book is useful for postgraduate students teachers and researchers working in areas of water resources and pollution hydrochemistry environmental remediation and toxicology who are looking to understand the affects metals have on water the environment and health and also those looking for methods for remediation Presents global case studies of sites contaminated by metals effects on the environment and successful remediation techniques Includes a whole section on remedial measures with clear step by step how to guides Provides chapters covering detailed biogeochemical processes

Stantec's Water Treatment John C. Crittenden,R. Rhodes Trussell,David W. Hand,Kerry J. Howe,George Tchobanoglous,2022-11-08 The updated third edition of the definitive guide to water treatment engineering now with all new online content Stantec s Water Treatment Principles and Design provides comprehensive coverage of the principles theory

and practice of water treatment engineering Written by world renowned experts in the field of public water supply this authoritative volume covers all key aspects of water treatment engineering including plant design water chemistry and microbiology water filtration and disinfection residuals management internal corrosion of water conduits regulatory requirements and more The updated third edition of this industry standard reference includes an entirely new chapter on potable reuse the recycling of treated wastewater into the water supply using engineered advanced treatment technologies QR codes embedded throughout the book connect the reader to online resources including case studies and high quality photographs and videos of real world water treatment facilities This edition provides instructors with access to additional resources via a companion website Contains in depth chapters on processes such as coagulation and flocculation sedimentation ion exchange adsorption and gas transfer Details membrane filtration technologies advanced oxidation and potable reuse Addresses ongoing environmental concerns pharmacological agents in the water supply and treatment strategies Describes reverse osmosis applications for brackish groundwater wastewater and other water sources Includes high quality images and illustrations useful appendices tables of chemical properties and design data and more than 450 exercises with worked solutions

Stantec's Water Treatment Principles and Design Updated Third Edition remains an indispensable resource for engineers designing or operating water treatment plants and is an essential textbook for students of civil environmental and water resources engineering

Advances in Chitin/Chitosan Characterization and Applications
Marguerite Rinaudo, Francisco M. Goycoolea, 2019-04-23

Functional advanced biopolymers have received far less attention than renewable biomass cellulose rubber etc used for energy production Among the most advanced biopolymers known is chitosan The term chitosan refers to a family of polysaccharides obtained by partial de N acetylation from chitin one of the most abundant renewable resources in the biosphere Chitosan has been firmly established as having unique material properties as well as biological activities Either in its native form or as a chemical derivative chitosan is amenable to being processed typically under mild conditions into soft materials such as hydrogels colloidal nanoparticles or nanofibers Given its multiple biological properties including biodegradability antimicrobial effects gene transfectability and metal adsorption to name but a few chitosan is regarded as a widely versatile building block in various sectors e g agriculture food cosmetics pharmacy and for various applications medical devices metal adsorption catalysis etc This Special Issue presents an updated account addressing some of the major applications including also chemical and enzymatic modifications of oligos and polymers A better understanding of the properties that underpin the use of chitin and chitosan in different fields is key for boosting their more extensive industrial utilization as well as to aid regulatory agencies in establishing specifications guidelines and standards for the different types of products and applications

Arsenic Toxicity: Challenges and Solutions
Nitish Kumar, 2021-02-15

Arsenic As is a widely distributed element in the environment having no known useful physiological function in plants or animals Historically this metalloid has been known to be used widely as a poison Effects of arsenic have

come to light in the past few decades due to its increasing contamination in several parts of world with the worst situation being in Bangladesh and West Bengal in India This edited volume brings together diverse group of environmental science sustainability and health researchers to address the challenges posed by global mass poisoning caused by arsenic water contamination The book covers sources of arsenic contamination and its impact on human health and on prospective remediation both by bioremediation and phytoremediation Applications of advance techniques such as genetic engineering and nanotechnology are also discussed to resolve the issue of arsenic contamination in ground water and river basins The book sheds light on this global environmental issue and proposes solutions to remove contamination through a multi disciplinary lens and case studies from Bangladesh and India The book may serve as a reference to environment and sustainability researchers students and policy makers It delivers an outline to graduate undergraduate students and researchers as well as academicians who are working on arsenic toxicity with respect to remediation and health issues

Chemical Engineering Education ,1984

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