



**Global
Edition**

Applied Hydraulic Engineering



P N Chandramouli

Applied Hydraulic Engineering Vijayaragavan

Tariq Altalhi, Inamuddin



Applied Hydraulic Engineering Vijayaragavan:

Applied Hydraulic Engineering Chandramouli, 2017 This book is specially designed for the graduate students of civil engineering The text covers the syllabi requirements of almost all technical universities A lucid pattern both in terms of language and content has been adopted throughout the text This book will prove to be a boon to the students preparing for engineering and other competitive examinations Key Features Sufficient conceptual information is included for a thorough understanding of the subject Includes a large number of worked examples summary end of topic questions problems and multiple choice questions Lays foundation on the practical applicability of hydraulic engineering to the real life situations Includes up to date coverage of topics in hydraulic engineering

Advances in Metrology and Measurement of Engineering Surfaces Chander Prakash, Grzegorz Krolczyk, Sunpreet Singh, Alokesh Pramanik, 2020-06-15 This book presents the select proceedings of the International Conference on Functional Material Manufacturing and Performances ICFMMP 2019 The book covers broad aspects of several topics involved in the metrology and measurement of engineering surfaces and their implementation in automotive bio manufacturing chemicals electronics energy construction materials and other engineering applications The contents focus on cutting edge instruments methods and standards in the field of metrology and mechanical properties of advanced materials Given the scope of the topics this book can be useful for students researchers and professionals interested in the measurement of surfaces and the applications thereof

Technologies of Water and Wastewater Treatment. Section II Juan Manuel Peralta-Hernández, Stanislav Kolisnichenko, 2025-02-17 Aggregated Book

Polymeric Nanofibers and their Composites Chandrabhan Verma, Yong X Gan, 2024-10-07 Polymeric Nanofibers and their Composites Recent Advances and Applications covers the fundamentals synthesis characterization properties and applications of natural and synthetic nanofibers and their related composites The book covers industrial biological and environmental applications including biomedical wastewater treatment energy storage and conversions gas adsorption supercapacitors electrocatalysis electronics sensors batteries fuel cells solar cells water splitting catalysis separation and purification With an international author base this book can be considered a valuable reference resource for academic and industrial researchers materials scientists and engineers and all those working in the fabrication of nanofibers design of nanomaterials and polymers composites and their related industrial applications Covers a broad spectrum of nanofibers with particular emphasis on natural nanofibers and their related composites Provides detailed information on synthesis methods Reviews advantages and disadvantages including natural and synthetic nanofibers Focuses on advanced industrial scale developments including current challenges in manufacturing Discusses industrial biological and environmental applications

Green Sustainable Process for Chemical and Environmental Engineering and Science Tariq

Altalhi, Inamuddin, 2023-01-11 Green Sustainable Process for Chemical and Environmental Engineering and Science Green Solvents and Extraction Technology provides information on the use of green solvents and their applications in the synthesis

of pharmaceutical drugs energy conversion and storage catalysis biodiesel synthesis multicomponent reactions waste valorization and more The book features introductory chapters related to the applications of green solvents and related extraction technology for sustainable development including research trends technical development environment issues and related concerns The book provides examples covering the extraction of nanocellulose from agricultural wastes polysaccharides phenolic compounds antioxidants from vegetables biomolecules and green solvents from biomass and precious metals Provides an overview of the applicability of green solvents for sustainable development Delivers in depth literature on the use of green solvents for industrial processes Highlights issues related to research trends sustainable development and the environment Focuses on extraction technology Offers an overview of the use of green solvent based extraction Presents in depth literature on the extraction of a variety of substances using green solvents

Environmental Sustainability Using Green Technologies V. Sivasubramanian, 2016-09-15 *Environmental Sustainability Using Green Technologies* explains the role of green engineering and social responsibility in the development of chemicals processes products and systems Examining the relationship between economy ecology and equality key factors in developing a sustainable society this book covers several aspects of environmental sustainability explores ways to use resources and processes more responsibly and describes the tools required to overcome various challenges It outlines the biotechnological applications techniques and processes needed to secure sustainable development and ensure long lasting future success Insightful and highly comprehensive this body of work addresses Wastewater treatment technologies Nanomaterials in environmental applications Green synthesis of ecofriendly nanoparticles The role of phytoremediation in maintaining environmental sustainability Algal biosorption of heavy metals Mass production of microalgae for industrial applications Integrated biological system for the treatment of sulfate rich wastewater Anaerobic digestion of pharmaceutical effluent Treatment of textile dye using bioaccumulation techniques Production of biosurfactants and their applications in bioremediation Biodegradable polymers Microbial fuel cell MFC technology Biodiesel from nonedible oil using a packed bed membrane reactor Production of ecofriendly biodiesel from marine sources Pretreatment techniques for the enhancement of biogas production A review of source apportionment of air pollutants by receptor models and more *Environmental Sustainability Using Green Technologies* provides excellent reference material that aids and supports sustainability and offers practical guidance for professors research scholars industrialists biotechnologists and workers in the applied field of environmental engineering

Untersuchungen Zum Einsatz Von Zeotropen Fluidgemischen Im Organic Rankine Cycle Für Die Geothermische Stromerzeugung Florian Heberle, 2013 Der Organic Rankine Cycle ORC ist ein thermodynamischer Kreisprozess in dem im Unterschied zum herkömmlichen Rankine Prozess an Stelle des Wassers ein organisches Fluid als Arbeitsmedium verwendet wird Hierdurch gewinnt man die Möglichkeit selbst bei nur moderaten Temperaturen genügend hohe Dampfdrucke zu erreichen Der ORC erweitert somit den technisch möglichen und ökonomisch sinnvollen

Einsatzbereich solcher Wärme Kraft Prozesse erheblich Ein besonders attraktives Einsatzgebiet ist dabei die Geothermie Thermalwasser mit einer Temperatur ab etwa 100 Grad Celsius kann durch ORC zur Stromerzeugung genutzt werden Als Arbeitsmittel sind hierbei insbesondere zeotrope Gemische interessant weil ihre nicht isotherme Phasenänderung zu einem Temperaturgleit führt der sich besonders gut an den Temperaturverlauf der Wärmequelle anschmiegt In diesem Band wird der Einsatz verschiedener Gemische im ORC eingehend untersucht Die Bewertung stützt sich auf eine thermodynamische Analyse berücksichtigt aber auch toxikologische und ökologische sowie technische und ökonomische Aspekte

Hybrid-Energy Sustainable Machining Yanbin Zhang, Changhe Li, 2025-08-13 This book explores the machinability mechanism of hard to machining materials under hybrid energy field with a particular emphasis on the development and modification of green lubricants the integration of multi energy field assistance and the intelligent machining equipment It offers a comprehensive overview of cleaner precision manufacturing techniques multi energy assisted processing applications and sustainable manufacturing practices presenting innovative strategies for energy conservation emission reduction and the advancement of an eco friendly society By enhancing the sustainable use of bio lubricants in intelligent machining and utilizing multi energy field assistance to improve grinding and turning performance this book provides a green clean and precise machining approach that prioritizes environmental protection resource efficiency and energy sustainability while addressing the compatibility challenges between intelligent machining systems and clean energy applications

Nano-Materials as Photocatalysts for Degradation of Environmental Pollutants Pardeep Singh, Anwesha Borthakur, P.K. Mishra, Dhanesh Tiwary, 2019-12-02 Nano Materials as Photocatalysts for Degradation of Environmental Pollutants Challenges and Possibilities contains both practical and theoretical aspects of environmental management using the processes of photodegradation and various heterogeneous catalysts The book's main focus is on the degradation of harmful pollutants such as petrochemicals crude oils dyes xenobiotic pharmaceutical waste endocrine disrupting compounds and other common pollutants Chapters incorporate both theoretical and practical aspects This book is useful for undergraduate or university students teachers and researchers especially those working in areas of photocatalysis through heterogeneous catalysts The primary audience for this book includes Chemical Engineers Environmental Engineers and scientists scholars working on the management of hazardous waste scientists working in fields of materials science and Civil Engineers working on wastewater treatment Reviews recent trends in the photodegradation of organic pollutants Offers a bibliometric analysis of photocatalysis for environmental abatement Includes many degradation mechanisms of organic pollutants using various catalysts Includes examples on the degradation of organic pollutants from various sources e.g. pharmaceuticals dyes pesticides etc Discusses the effect of nanocatalysts on soil plants and the ecosystem

Comprehensive Water Quality and Purification , 2013-09-24 Comprehensive Water Quality and Purification Four Volume Set provides a rich source of methods for analyzing water to assure its safety from natural and deliberate contaminants

including those that are added because of carelessness of human endeavors Human development has great impact on water quality and new contaminants are emerging every day The issues of sampling for water analysis regulatory considerations and forensics in water quality and purity investigations are covered in detail Microbial as well as chemical contaminations from inorganic compounds radionuclides volatile and semivolatile compounds disinfectants herbicides and pharmaceuticals including endocrine disruptors are treated extensively Researchers must be aware of all sources of contamination and know how to prescribe techniques for removing them from our water supply Unlike other works published to date that concentrate on issues of water supply water resource management hydrology and water use by industry this work is more tightly focused on the monitoring and improvement of the quality of existing water supplies and the recovery of wastewater via new and standard separation techniques Using analytical chemistry methods offers remediation advice on pollutants and contaminants in addition to providing the critical identification perspective The players in the global boom of water purification are numerous and varied Having worked extensively in academia and industry the Editor in Chief has been careful about constructing a work for a shared audience and cause

Heavy Metals in the Environment - Contamination, Risk, and Remediation Mitsuo Yoshida, 2025-02-05 The book comprehensively synthesises contemporary research on heavy metal contamination associated risks and remediation strategies This volume is a valuable resource for experts researchers students and practitioners across diverse fields including environmental science environmental chemistry water resource management wastewater treatment engineering ecology nature conservation and public health

Waste Management: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2019-12-06 As the world's population continues to grow and economic conditions continue to improve more solid and liquid waste is being generated by society Improper disposal methods can not only lead to harmful environmental impacts but can also negatively affect human health To prevent further harm to the world's ecosystems there is a dire need for sustainable waste management practices that will safeguard the environment for future generations *Waste Management Concepts Methodologies Tools and Applications* is a vital reference source that examines the management of different types of wastes and provides relevant theoretical frameworks about new waste management technologies for the control of air water and soil pollution Highlighting a range of topics such as contaminant removal landfill treatment and recycling this multi volume book is ideally designed for environmental engineers waste authorities solid waste management companies landfill operators legislators environmentalists policymakers government officials academicians researchers and students

Bioremediation for Environmental Sustainability Vineet Kumar, Gaurav Saxena, Maulin P. Shah, 2020-08-28 *Bioremediation for Environmental Sustainability Approaches to Tackle Pollution for Cleaner and Greener Society* discusses many recently developed and successfully applied bio phytoremediation technologies for pollution control and minimization which are lacking more comprehensive coverage in previous books This book describes the scope and applications of bio phytoremediation

technologies and especially focuses on the associated eco environmental concerns field studies sustainability issues and future prospects The book also examines the feasibility of environmentally friendly and sustainable bio phytoremediation technologies to remediate contaminated sites as well as future directions in the field of bioremediation for environmental sustainability Illustrates the importance of microbes and plants in bio phytoremediation and wastewater treatment Includes chapters on original research outcomes pertaining to pollution pollution abatement and associated bioremediation technologies Covers emerging bioremediation technologies including electro bioremediation microbial fuel cell nano bioremediation constructed wetlands and more Highlights key developments and challenges in bioremediation and phytoremediation technologies Describes the roles of relatively new approaches in bio phytoremediation including molecular engineering and omics technologies microbial enzymes biosurfactants plant microbe interactions genetically engineered organisms and more Strategic Management of Wastewater from Intensive Rural Industries Nurudeen Abiola

Oladoja, Emmanuel Iyayi Unuabonah, 2025-08-22 This book provides insight into the environmental and ecological impacts of the operations of intensive rural industries and how these undesirable impacts can be effectively managed In the developing economies the different human empowerment and poverty alleviation schemes have produced myriads of intensive rural industries that littered States in these economies These industries are often characterized by their small scale outmoded technology obsolete equipment poor management and large water consumption Since their operations usually consume large volume of fresh water high magnitude of untreated wastewater is equally discharged The huge consumption of freshwater puts a lot of stress on freshwater resource available for human use and the discharge of contaminated wastewater from these industries disrupts the ecological balance It has been reported that untreated industrial waste constitutes about two thirds of the total waste discharge into water bodies and the largest chunk of this is derived from rural enterprises Therefore the environmental cost of rural industrialization is enormous and needs to be examined The evaluation of the quality characteristics the socioeconomic impacts and the law guiding the generation and the discharge of the wastewater from specific rural industries are enunciated The conventional practice and the trends in the effective management of specific wastewater samples are also discussed

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

Environmental Sustainability and Industries

Pardeep Singh, João Paulo Bassin, Sanchayita Rajkhowa, Ramesh Oraon, Chaudhery Mustansar Hussain, 2022-06-03

Environmental Sustainability and Industries identifies and discusses critical areas related to environmentally conscious industrial development of products and services that may support more sustainable and equitable societies This book addresses pollution prevention by referring to the use of processes practices and materials that reduce or eliminate the generation of pollutants at the source of production more efficient use of raw materials energy water or other resources or by conserving natural resources by maintaining clean production It explains industrial energy efficiency as the most cost effective use of energy in manufacturing processes reducing its wastage as well as the total consumption of primary energy resources Life cycle assessment is used as an analytical method to quantify environmental impacts focusing on environmental considerations concerning process design and optimization and including various sustainable manufacturing parameters in the context of industrial processes and proposes a classification of identified parameters to evaluate and optimize the manufacturing performances The book also dives into industrial ecology investigating how where and why environmental improvements can be made to develop a sustainable industry meeting the needs of current generations without sacrificing the needs of the future ones This book analyzes a company's environmental social and economic performance and their interrelationships emphasizing the importance of identifying and understanding causal relationships between alternative approaches to action and their impact on financial and nonfinancial performance It concludes with a view on the future of sustainable industrial systems stressing change as a joint effort of scientists governments people in business and academicians Offers compiled information on the environmental sustainability for industry Provides principles and advanced trends and approaches for environmental sustainability for the industrial sector Discusses established and emerging technologies and processes for sustainable approaches for industry Presents the development in the use of the assessment models as a tool to support the research and applications of different sustainable technologies and processes

Nanocellulose and Sustainability Koon-Yang Lee, 2018-01-03 Nanometre scale cellulose fibres or nanocellulose are emerging materials for various advanced applications Nanocellulose and Sustainability Production Properties Applications and Case Studies provides a comprehensive overview of nanocellulose production nanocellulose properties and nanocellulose in selected applications This book serves as an entry level reference text for undergraduates graduate students researchers

and professional engineers working in the area of nanocellulose and sustainability Features Summarises the surface and bulk properties of various types of nanocellulose Reviews the application of nanocellulose in water purification and optically transparent materials Provides an overview of nanocellulose as Pickering emulsifier binder for loose natural fibres to produce non woven preforms as well as nanocellulose based aerogels Presents a techno economic analysis of industrial bacterial cellulose production Discusses the pilot scale production of cellulose nanocrystals Earthquake Engineering Research Center Library Printed Catalog University of California, Berkeley. Earthquake Engineering Research Center. Library,1975

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 contaminates Advanced Oxidation Processes for Wastewater Treatment Maulin P Shah,Sweta Parimita Bera,Günay Yildiz Tore,2022-03-09 Advanced Oxidation Processes for Wastewater Treatment An Innovative Approach This book highlights the importance of various innovative advanced oxidation technology to clean up the environment from pollution caused by human activities It assesses the potential application of several existing bioremediation techniques and introduces new emerging technologies This book is an updated vision of the existing advanced oxidation strategies with their limitations and challenges and their potential application to remove environmental pollutants It also introduces the new trends and advances in environmental bioremediation technology with thorough discussion of recent developments in this field This book highlights the importance of different innovative advanced oxidation process to deal with the ever increasing number of environmental pollutants Features Illustrates the importance of various advance oxidation processes in effluent treatment plant Points out the reuse of the treated wastewater through emerging advance oxidation technologies for effluent treatment plant Highlights the recovery of resources from wastewater Pays attention to the occurrence of novel micro pollutants Emphasizes the role of nanotechnology in bioremediation of pollutants Introduces new trends in environmental bioremediation

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