

Free read Air contaminants and industrial hygiene ventilation a handbook of practical calculations problems and solutions Copy

Emerging Contaminants from Industrial and Municipal Waste Emerging Contaminants from Industrial and Municipal Waste Air Contaminants and Industrial Hygiene Ventilation Air Contaminants and Industrial Hygiene Ventilation Air Contaminants, Ventilation, and Industrial Hygiene Economics The Contamination of the Earth Principles of Sampling and Analysis of Atmospheric Contaminants in Workplaces Air Contaminants, Ventilation, and Industrial Hygiene Economics Air Contaminants, Ventilation, and Industrial Hygiene Economics Contaminants and Clean Technologies Contamination-Free Manufacturing for Semiconductors and Other Precision Products The Link Between Cancer and Environmental Contaminants and Industrial Carcinogens Emerging Contaminants from Industrial and Municipal Waste Security of Industrial Water Supply and Management Removal of Metallic Contaminants from Industrial Waste Waters by the Use of Greensands Biodegradation and Detoxification of Micropollutants in Industrial Wastewater Bioremediation of Industrial Waste for Environmental Safety Application of Phytotechnologies for Cleanup of Industrial, Agricultural and Wastewater Contamination Biological Treatment of Industrial Wastewater Biotreatment of Industrial Effluents Phytoremediation Technology for the Removal of Heavy Metals and Other Contaminants from Soil and Water Field Guide for the Determination of Biological Contaminants in Environmental Samples Removal of Emerging Contaminants Through Microbial Processes Advances In Air Sampling Chemical Contaminants and Residues in Food Emerging Contaminants in Soil and Groundwater Systems Current Industrial Reports Pollutants and Water Management Management of Contaminants of Emerging Concern (CEC) in Environment Bioremediation for Environmental Sustainability Chemical Degradation Methods for Wastes and Pollutants Guide to industrial assessments for pollution prevention and energy efficiency Biosorption for Wastewater Contaminants Emerging Pollutants Ecology of Industrial Pollution Emerging Contaminants Vol. 2 Industrial and Municipal Sludge Emerging Contaminants Vol. 1 Contaminated Water Supplies at Camp Lejeune Recent Advancements in Bioremediation of Metal Contaminants

Emerging Contaminants from Industrial and Municipal Waste

2008-11-04

this book focuses on innovative treatment technologies for the elimination of emerging contaminants in wastewater and drinking water treatment processes the book also discusses sources and occurrence of emerging contaminants in municipal and industrial waste giving an overview of state of the art analytical methods for their identification further important aspects covered include the acute and chronic effects and overall impact of emerging contaminants on the environment

Emerging Contaminants from Industrial and Municipal Waste

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Air Contaminants and Industrial Hygiene Ventilation

2018-05-11

the industrial hygienist is actively involved with the engineering community particularly where the subject of industrial ventilation is concerned while engineers concentrate on methods and techniques necessary to ensure maximum efficiency of a given system the industrial hygienist concentrates on human health ventilation is one of the most widely used methods of controlling environmental eontaminates and for this reason industrial hygienists must have specific knowledge of the design of equipment and the principles which it operates this informative text written in easily understood language will allow those without a mechanical engineering background to understand air calculation and ventilation problems industrial hygiene ventilation provides the industrial hygienist with a handy reference containing the equations constants conversions and formulae that they will encounter in their day to day duties

Air Contaminants and Industrial Hygiene Ventilation

1998

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encountered in day to day duties p 4 cover

Air Contaminants, Ventilation, and Industrial Hygiene Economics

2016-04-19

there is nothing more devastating to baseless opinions than good numbers air contaminants ventilation and industrial hygiene economics the practitioner s toolbox and desktop handbook helps you obtain good numbers on your quest to squash shabby opinions with sound advice it details real world applications of good numbers to foster improvements in industrial hygiene preventing inhalation toxicity and promoting better environmental air quality divided into four parts the book includes tips on preparing for the board certification examinations for certified industrial hygienist cih certified safety professional csp certified hazardous materials manager chmm and diplomate of the american board of toxicology dabt 726 solved problems in industrial hygiene ventilation occupational environmental toxicology occupational health risk management and chemical safety engineering 154 economic persuasion techniques based on actual case studies to help feather one s career bed and assist installation of industrial hygiene control methods tips and guiding principles for professional career development this book provides industrial hygienists with a reference containing the equations conversions and formulas they encounter in their day to day duties a study aid to those taking the certification exams cih csp chmm and dabt it also includes business economic case studies demonstrating how to preserve your clients financial resources promote industrial hygiene foster worksite safety learn the financial ropes of business economics and help control your clients potential adverse environmental impact and in so doing greatly enhance career progress

The Contamination of the Earth

2021-11-16

the trajectories of pollution in global capitalism from the toxic waste of early tanneries to the poisonous effects of pesticides in the twentieth century through the centuries the march of economic progress has been accompanied by the spread of industrial pollution as our capacities for production and our aptitude for consumption have increased so have their byproducts chemical contamination from fertilizers and pesticides diesel emissions oil spills a vast plastic continent found floating in the ocean the contamination of the earth offers a social and political history of industrial pollution mapping its trajectories over three centuries from the toxic wastes of early tanneries to the fossil fuel energy regime of the twentieth century

Principles of Sampling and Analysis of Atmospheric Contaminants in Workplaces

1966

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Air Contaminants, Ventilation, and Industrial Hygiene Economics

2016

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Air Contaminants, Ventilation, and Industrial Hygiene Economics

2017-03-29

contaminants and clean technologies provides valuable information on environmental contaminants such as industrial pollutants micropollutants pesticides endocrine disruptors pharmaceuticals toxins and hormones it focuses on the various types of environmental contaminants discharged from various sources their toxicological effects in environments humans animals and plants and their removal methods it also covers comprehensively information on the contaminants released by various industries and agricultural practices which cause severe threats to the environment features of the book elucidates systematic information on various types of environmental contaminants and their fate and consequences discusses contaminants such as endocrine disruptors pharmaceutical waste and personal care products provides an overview of physicochemical and biological treatment technologies for sustainable development details recent research finding in the area of environmental contaminants and their future challenges

Contaminants and Clean Technologies

2020-02-27

recognizing the need for improved control measures in the manufacturing process of highly sensitized semiconductor technology this practical reference provides in depth and advanced treatment on the origins procedures and disposal of a variety of contaminants it uses contemporary examples based on the latest hardware and processing apparatus to illustrate previously unavailable results and insights along with experimental and theoretical developments ensures the proper methods necessary to meet the standards established in the 1997 national technology roadmap for semiconductors ntrs summarizing up to date control practices in the industry contamination free manufacturing for semiconductors and other precision products details the physics and chemistry behind the mechanisms leading to contamination induced failures considers particles and molecular contaminants including the entire spectrum of mass based contaminants outlines primary contamination problems and target control levels reveals and offers solutions to inadequate areas of measurement capability and control technology clarifies significant problems and decisions facing the industry by analyzing ntrs standards and contamination mechanisms containing over 700 literature references drawings photographs equations and tables contamination free manufacturing for semiconductors and other precision products is an essential reference for electrical and electronics instrumentation process manufacturing development contamination control and quality engineers physicists and upper level undergraduate and graduate students in these disciplines

Contamination-Free Manufacturing for Semiconductors and Other Precision Products

2018-10-08

this book focuses on innovative treatment technologies for the elimination of emerging contaminants in wastewater and drinking water treatment processes the book also discusses sources and occurrence of emerging contaminants in municipal and industrial waste giving an overview of state of the art analytical methods for their identification further important aspects covered include the acute and chronic effects and overall impact of emerging contaminants on the environment

The Link Between Cancer and Environmental Contaminants and Industrial Carcinogens

1994

over time the increased use of fresh water for agriculture and industry together with contamination from discharges of pollutants mean that ever more areas of the planet are becoming water stressed because of the competing needs of communities and industry for fresh water industry will be challenged to meet its growing demands for water which is essential for producing the goods and services that would boost human welfare thus industry will need to learn how to cost effectively purify and recycle its wastewater for reuse ultimately approaching a net zero discharge condition the chapters in this book written by international experts treat the technical issues of such treatment and water management and also provide guidance on technologies either existing or in development that can potentially achieve the goal of recycle reuse the book will serve as a useful reference for academics government and industry professionals alike

Emerging Contaminants from Industrial and Municipal Waste

2008-10-16

biodegradation and detoxification of micropollutants in industrial wastewater summarizes the occurrence and source of micropollutants through various industrial wastewaters it covers the type of micropollutants their effects and emerging detection and treatment methods the book has 11 chapters and throughout each chapter it presents the fate and effects of micropollutants quantitative and qualitative analysis of micropollutants in industrial wastewaters and treatment of micropollutants through conventional and advanced wastewater treatment technologies presents detailed information on the micropollutants of industrial wastewaters and their origins assesses the toxic effect these micropollutants have on living organisms evaluates emerging treatment technologies for the removal of micropollutants includes molecular biology nanotechnology and microbiology approaches for the management of micropollutants in industrial wastewaters

Security of Industrial Water Supply and Management

2011-08-24

achieving environmental sustainability with rapid industrialization is a major challenge of current scenario worldwide as globally evident industries are the key economic drivers but are also the major polluters as untreated partially treated effluents discharged from the industries is usually thrown into the aquatic resources and also dumped unattended industrial effluents are considered as the major sources of environmental pollution as these contains highly toxic and hazardous pollutants which reaches far off areas due to the medium of dispersion and thus create ecological nuisance and health hazards in living beings hence there is an urgent to find ecofriendly solution to deal with industrial waste and develop sustainable methods for treating detoxifying wastewater before its release into the environment being a low cost and eco friendly clean

technology bioremediation can be a sustainable alternative to conventional remediation technologies for treatment and management of industrial wastes to protect public health and environment therefore this book volume i covers the bioremediation of different industrial wastes viz tannery wastewater pulp and paper mill wastewater distillery wastewater acid mine tailing wastes and many more which are lacking in a comprehensive manner in previous literature at one place a separate chapter dedicated to major industries and type of waste produced by them is also included this book will appeal to students researchers scientists industry persons and professionals in field of microbiology biotechnology environmental sciences eco toxicology environmental remediation and waste management and other relevant areas who aspire to work on the biodegradation and bioremediation of industrial wastes for environmental safety

Removal of Metallic Contaminants from Industrial Waste Waters by the Use of Greensands

1975

as government and community leaders private companies citizens and applied scientists search for low cost methods to cleanup environmental pollution phytotechnologies can contribute to the solution by utilizing natural processes to reduce environmental risk phytotechnologies use vegetation to manage environmental contaminants in soil surface water and groundwater based on site specific design considerations that can save 50 to 75 percent of the capital and operating costs compared to conventional remediation and containment technologies successful phytotechnology applications are based on scientific knowledge of plant physiology chemical contaminants climate and soil conditions this book presents current research findings that address soil and water contamination with obsolete pesticides radionuclides and other inorganic and organic contaminants this book documents international sharing of information by scientists and stakeholders seeking to use the best available information to disseminate existing knowledge on phytotechnologies and exchange experience of field scale applications for cleanup of industrial agricultural and wastewater contamination to assess existing knowledge and identify research needs and directions for future work especially in regard to environmental management in central and eastern europe and central asia and to promote collaboration between different countries in preparing applications for environmental remediation and restoration

Biodegradation and Detoxification of Micropollutants in Industrial Wastewater

2022-04-26

biological treatment of industrial wastewater presents a comprehensive overview of the latest advances and trends in the use of bioreactors for treating industrial wastewater

Bioremediation of Industrial Waste for Environmental Safety

2019-06-29

with increasing government regulation of pollution as well as willingness to levy punitive fines for transgressions treatment of industrial waste is a important subject this book is a single source of information on treatment procedures using biochemical means for all types of solid liquid and gaseous contaminants generated by various chemical and allied industries this book is intended for practicing environmental engineers and technologists from any industry as well as researchers and professors the topics covered include the treatment of gaseous liquid and solid waste from a large number of chemical and allied industries that include dye stuff chemical alcohol food processing pesticide pharmaceuticals paint etc information on aerobic and anaerobic reactors and modeling and simulation of waste treatment systems are also discussed compares chemical and biochemical means of industrial waste treatment provides details of technology i e reactors operating conditions etc with regard to the biochemistry aspects can be used as a teaching aid for graduate courses and a reference material by practicing environmental scientists and engineers researchers can extract synergy between treatment procedures and various effluents

Application of Phytotechnologies for Cleanup of Industrial, Agricultural and Wastewater Contamination

2009-11-03

phytoremediation technology for the removal of heavy metals and other contaminants from soil and water focuses on the exploitation of plants and their associated microbes as a tool to degrade detoxify stabilize toxic and hazardous contaminants and restore the contaminated site the book introduces various phytoremediation technologies using an array of plants and their associated microbes for environmental cleanup and sustainable development the book mainly focuses on the remediation of toxic and hazardous environmental contaminants their phytoremediation mechanisms and strategies advances and challenges in the current scenario this book is intended to appeal to students researchers scientists and a wide range of professionals responsible for regulating monitoring and designing industrial waste facilities engineering consultants industrial waste managers and purchasing department managers government regulators and graduate students will also find this book invaluable provides natural and eco friendly solutions to deal with the problem of pollution details underlying mechanisms of phytoremediation of organic and inorganic contaminants with enzymatic roles describes numerous successful field studies on the application of phytoremediation for eco restoration of contaminated sites presents recent advances and challenges in phytoremediation research and applications for sustainable development provides authoritative contributions on the diverse aspects of phytoremediation by world leading experts

Biological Treatment of Industrial Wastewater

2021-12-03

this second edition of aih's field guide incorporates the most recent findings and research that reflect prevailing occupational health and safety and industrial hygiene practices its nine chapters provide the most current solutions to problems facing professionals working with biological contaminants this guide serves as an academic and professional reference

Biotreatment of Industrial Effluents

2005-04-07

the abundance of organic pollutants found in wastewater affect urban surface waters traditional wastewater management technologies focus on the removal of suspended solids nutrients and bacteria however new pollutants such as synthetic or naturally occurring chemicals are often not monitored in the environment despite having the potential to enter the environment and cause adverse ecological and human health effects collectively referred to as emerging contaminants they are mostly derived from domestic activities and occur in trace concentrations ranging from pico to micrograms per liter environmental contaminants are resistant to conventional wastewater treatment processes and most of them remain unaffected causing contamination of receiving water this in turn leads to the need for advanced wastewater treatment processes capable of removing environmental contaminants to ensure safe fresh water sources this book provides an up to date overview of the current bioremediation strategies including their limitations challenges and their potential application to remove environmental pollutants it also introduces the latest trends and advances in environmental bioremediation and presents the state of the art in biological and chemical wastewater treatment processes as such it will appeal to researchers and policy makers as well as undergraduate and graduate environmental sciences students

Phytoremediation Technology for the Removal of Heavy Metals and Other Contaminants from Soil and Water

2022-02-07

a copublication of the american conference of governmental industrial hygienists and lewis publishers this series continues the former annuals of the american conference of governmental industrial hygienists this series is designed to present state of the art information on research and practical applications of science in the field of occupational health books are normally the proceedings of an important symposium or conference sponsored by the acgih or other leading professional organization in or allied with the occupational health field content deals with subject of current interest books in the industrial hygiene science series should become valued additions to the international scientific literature published volumes

in this series are microcomputer applications in occupational health and safety ergonomic interventions to prevent musculoskeletal injuries in industry advances in air sampling

Field Guide for the Determination of Biological Contaminants in Environmental Samples

2005

chemical contaminants and residues in food second edition is an invaluable tool for all industrial and academic researchers involved with food safety from industry professionals responsible for producing safe food to chemical analysts involved in testing the final products this updated edition is expanded to cover the latest research and emerging issues and has additional information useful for food safety testing written by an international team of expert contributors this edition explores the entire food chain acting as a roadmap for further research includes expanded coverage on risk assessment and testing technologies presents fully updated chapters to provide the most up to date information in research on food chemical safety provides new information on hot topic areas such as food additives mycotoxins nanomaterials and food contact materials

Removal of Emerging Contaminants Through Microbial Processes

2020-10-14

emerging contaminants in soil and groundwater systems occurrence impact fate and transport addresses the current need for comprehensive and detailed information on emerging contaminants in the environment due to increasing industrial expansion and evolving technologies novel contaminants are being found in the environment with little information on their analysis fate and transport this book covers pharmaceuticals and personal care products perfluorinated compounds engineered nanoparticles and microplastics providing the information environmental scientists require to study their occurrence and interactions including case studies for each contaminant this book is a valuable read for postgraduate students academics researchers engineers and other professionals in the fields of environmental science soil science and hydrology who need the most up to date information and analytical methods for analyzing newly emerging contaminants in soil and groundwater presents the four most important emerging contaminants of concern that have had little comprehensive coverage to date pharmaceuticals and personal care products perfluorinated compounds engineered nanoparticles and microplastics focuses on the fate and transport of each emerging contaminant providing a thorough description of how each contaminant interacts with the environment includes case studies of each emerging contaminant to complement advances in research to form a comprehensive reference for all emerging contaminants

Advances In Air Sampling

2017-07-28

pollutants and water management pollutants and water management resources strategies and scarcity delivers a balanced and comprehensive look at recent trends in the management of polluted water resources covering the latest practical and theoretical aspects of polluted water management the distinguished academics and authors emphasize indigenous practices of water resource management the scarcity of clean water and the future of the water system in the context of an increasing urbanization and globalization the book details the management of contaminated water sites including heavy metal contaminations in surface and subsurface water sources it details a variety of industrial activities that typically pollute water such as those involving crude oils and dyes in its discussion of recent trends in abatement strategies pollutants and water management includes an exploration of the application of microorganisms like bacteria actinomycetes fungi and cyanobacteria for the management of environmental contaminants readers will also discover a wide variety of other topics on the conservation of water sources including the role of government and the public in the management of water resource pollution the causes of river system pollution and potential future scenarios in the abatement of river pollution microbial degradation of organic pollutants in various water bodies the advancement in membrane technology used in water treatment processes lead contamination in groundwater and recent trends in abatement strategies for it highly polluting industries and their effects on surrounding water resources perfect for graduate and postgraduate students and researchers whose focus is on recent trends in abatement strategies for pollutants and the application of microorganisms for the management of environmental contaminants pollutants and water management resources strategies and scarcity also has a place in the libraries of environmentalists whose work involves the management and conservation of polluted sites

Chemical Contaminants and Residues in Food

2017-06-27

management of contaminants of emerging concern cec in environment provides information about new concepts and latest developments in origin reaction pathways transportation transformation products identification and adverse effects of cec as well as recent remediation technologies and tools for cec the book explores processes such as nanotechnology for the degradation of cec by using various heterogeneous catalysts the chapters incorporate both theoretical and practical aspects and can serve as a baseline for future studies so management of contaminants of emerging concern cec in environment is an indispensable resource for university students teachers and researchers especially those working in the area of remediation and management of contaminants of emerging concern takes a holistic approach focusing on the origin of contaminants type of contaminants remediation technologies regulations and legal aspects applies chemical physical and biological processes for the treatment of emerging contaminants written by a team of internationally reputed and rising researchers

Emerging Contaminants in Soil and Groundwater Systems

2022-01-16

bioremediation for environmental sustainability toxicity mechanisms of contaminants degradation detoxification and challenges introduces pollution and toxicity profiles of various organic and inorganic contaminants including mechanisms of toxicity degradation and detoxification by microbes and plants and their bioremediation approaches for environmental sustainability the book also covers many advanced technologies in the field of bioremediation and phytoremediation including electro bioremediation microbial fuel cells nano bioremediation constructed wetlands phytotechnologies and many more which are lacking in other competitive titles existing in the market the book includes updated information as well as future directions for research in the field of bioremediation of industrial wastes this book is a reference for students researchers scientists and professionals in the fields of microbiology biotechnology environmental sciences eco toxicology environmental remediation and waste management especially those who aspire to work on the biodegradation and bioremediation of industrial wastes and environmental pollutants for environmental sustainability environmental safety and sustainability with rapid industrialization is one of the major challenges worldwide industries are the key drivers in the world economy but these are also the major polluters due to discharge of potentially toxic and hazardous wastes containing various organic and inorganic pollutants which cause environmental pollution and severe toxic effects in living beings introduces pollution and toxicity profiles of environmental contaminants and industrial wastes including oil refinery wastewater distillery wastewater tannery wastewater textile wastewater mine tailing wastes plastic wastes and more describes underlying mechanisms of degradation and detoxification of emerging organic and inorganic contaminants with enzymatic roles focuses on recent advances and challenges in bioremediation and phytoremediation including microbial enzymes biosurfactants microalgae biofilm archaea genetically engineered organisms and more describes how microbes and plants can be successfully applied for the remediation of potentially toxic industrial wastes and chemical pollutants to protect the environment and public health

Current Industrial Reports

1978

chemical degradation methods for wastes and pollutants focuses on established and emerging chemical procedures for the management of pollutants in industrial wastewater and the environment this reference offers an in depth explanation of the degradation process mechanisms and control factors affecting each method as well as issues crucial to the application of these approaches in real world treatment sites it examines ten of the most common and useful chemical technologies for environmental remediation and sanitation of industrial waste streams and offers implementation guidelines and examples of remediation strategies that are crucial to effective wastewater cleansing

Pollutants and Water Management

2021-05-04

pollution due to various anthropogenic activities continues to increase in terms of water pollutants organic and inorganic pollutants are the most problematic although several measures have been proposed and implemented to prevent or reduce contamination their increased concentration in water bodies has created serious concerns over the years the problem has been aggravated by industrialization urbanization and the exploitation of natural resources the direct discharge of wastewater contaminants and their geographical mobilization have caused an increase in concentration in ground surface fluvial and residual waters extensive information about detection and disposal methods is needed in order to develop technological solutions for a variety of environments both urban and rural this book provides up to date information on wastewater contaminants aimed at researchers engineers and technologists working in this field conventional physicochemical techniques used to remove contaminants from wastewater include ion exchange precipitation degradation coagulation coating membrane processes and adsorption however these applications have technological and economic limitations and involve the release of large amounts of chemical reagents and by products that are themselves difficult to remove biosorption the use of organically generated material as an adsorbent is attracting new research and scholarship thermally treated calcined biomaterials may be treated to remove heavy metals from wastewater to ensure the elimination of these contaminants existing solutions must be integrated with intelligent biosorption functions biosorption for wastewater contaminants will find an appreciative audience among academics and postgraduates working in the fields of environmental biotechnology environmental engineering wastewater treatment technology and environmental chemistry

Management of Contaminants of Emerging Concern (CEC) in Environment

2021-03-12

an excellent concise and interdisciplinary overview of different classes of emerging pollutants arising for example from pharmaceuticals pesticides personal care products and industrial chemicals and their impact on water soil and air following an introduction to chemical pollutants with special attention focused on organic compounds and their properties the book goes on to describe major emerging pollutants grouped according to their applications in different sectors of industrial or economic activity for each type of compound the chemical structure main properties and source are presented along with their fate in the environment as pollutants the latest analytical methods for detection possible health or ecology consequences as well as current regulatory laws new developments such as nanotechnology as a pollution source are also included the book closes with a chapter devoted to conclusions and future perspectives

Bioremediation for Environmental Sustainability

2020-10-13

written for researchers and practitioners in environmental pollution management and ecology this interdisciplinary account explores the ecological issues associated with industrial pollution to provide a complete picture of this important environmental problem from cause to effect to solution bringing together diverse viewpoints from academia and environmental agencies and regulators the contributors cover such topics as biological resources of mining areas biomonitoring of freshwater and marine ecosystems and risk assessment of contaminated land in order to explore important questions such as what are the effects of pollutants on functional ecology and ecosystems do current monitoring techniques accurately signal the extent of industrial pollution does existing policy provide a coherent and practicable approach case studies from throughout the world illustrate major themes and provide valuable insights into the positive and negative effects of industrial pollution the provision of appropriate monitoring schemes and the design of remediation and restoration strategies

Chemical Degradation Methods for Wastes and Pollutants

2003-08-08

emerging contaminants are chemical and biological agents for which there is growing concern about their potential health and environmental effects the threat lies in the fact that the sources fate and toxicology of most of these compounds have not yet been studied emerging contaminants therefore include a large number of both recently discovered and well known compounds such as rare earth elements viruses bacteria nanomaterials microplastics pharmaceuticals endocrine disruptors hormones personal care products cosmetics pesticides surfactants and industrial chemicals emerging contaminants have been found in many daily products and some of them accumulate in the food chain correlations have been observed between aquatic pollution by emerging contaminants and discharges from wastewater treatment plants most actual remediation methods are not effective at removing emerging contaminants this second volume presents comprehensive knowledge on emerging contaminants with a focus on remediation

Guide to industrial assessments for pollution prevention and energy efficiency

2021-10-25

industrial and municipal sludge emerging concerns and scope for resource recovery begins with a characterization of the types of sludge and their sources and management strategies this section is followed by specific chapters that cover emerging contaminants in sludge endocrine disruptors pesticides and pharmaceutical residues including illicit drugs controlled substances bioleaching of sludge with an enriched sulfur oxidizing bacterial community recovery of valuable metals bioleaching and use of sulfur oxidizing bacterial community and biogas production by continuous thermal hydrolysis and thermophilic anaerobic digestion of waste activated sludge in addition the book includes numerous tables and flow diagrams to help users further comprehend the subject matter includes numerous tables and flow diagrams to assist in the comprehension of new and existing sludge treatments and resource recovery technology covers biogas production by continuous thermal hydrolysis and thermophilic anaerobic digestion of waste activated sludge presents information on the recovery of valuable metals from

sludge bioleaching and the use of a sulfur oxidizing bacterial community includes opportunities and challenges in the biorefinery based valorization of pulp and paper sludge

Biosorption for Wastewater Contaminants

2017-11-01

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Emerging Pollutants

2010-02-18

in the early 1980s two water supply systems on the marine corps base camp lejeune in north carolina were found to be contaminated with the industrial solvents trichloroethylene tce and perchloroethylene pce the water systems were supplied by the tarawa terrace and hadnot point watertreatment plants which served enlisted family housing barracks for unmarried service personnel base administrative offices schools and recreational areas the hadnot point water system also served the base hospital and an industrial area and supplied water to housing on the holcomb boulevard water system full time until 1972 and periodically thereafter this book examines what is known about the contamination of the water supplies at camp lejeune and whether the contamination can be linked to any adverse health outcomes in former residents and workers at the base

Ecology of Industrial Pollution

2022-04-29

pollution and ways to combat it have become topics of great concern for researchers one of the most important dimensions of this global crisis is wastewater which can often become contaminated with heavy metals such as lead mercury and arsenic which are released from different industrial wastes mines and agricultural runoff bioremediation of such heavy metals has been extensively studied using different groups of bacteria fungi and algae and has been considered as a safer eco friendly and

cost effective option for mitigation of contaminated wasteland the toxicity of water impacts all of society and so it is of great importance that we understand the better cleaner and more efficient ways of treating water recent advancements in bioremediation of metal contaminants is a pivotal reference source that explores bioremediation of pollutants from industrial wastes and examines the role of diverse forms of microbes in bioremediation of wastewater covering a broad range of topics including microorganism tolerance phytoremediation and fungi the role of different extremophiles and biofilms in bioremediation are also discussed this book is ideally designed for environmentalists engineers policymakers academicians researchers and students in the fields of microbiology toxicology environmental chemistry and soil and water science

Emerging Contaminants Vol. 2

2019-04-16

Industrial and Municipal Sludge

2021-04-22

Emerging Contaminants Vol. 1

2009-09-06

Contaminated Water Supplies at Camp Lejeune

2020-07-10

Recent Advancements in Bioremediation of Metal Contaminants

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