

REMEDIATION OF PETROLEUM CONTAMINATED SOILS

Biological, Physical, and Chemical Processes

Eve Riser-Roberts

Remediation Of Petroleum Contaminated Soils Biological Physical And Chemical Processes

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Remediation Of Petroleum Contaminated Soils Biological Physical And Chemical Processes:

Remediation of Petroleum Contaminated Soils Eve Riser-Roberts, 2020-11-25 This book combines the results of current research with essential background material to provide complete in depth coverage of every aspect of in situ and ex situ bioremediation as well as an extensive overview of the physical and chemical processes currently available for treating petroleum contaminated soils Critical information has been collected and assembled under one cover to provide a convenient reference for anyone who must contend with this worldwide problem *Remediation of Petroleum Contaminated Soils Biological Physical and Chemical Processes* describes how to optimize the biodegradation of petroleum hydrocarbons in soil water systems It reports on the susceptibility of various petroleum components to biodegradation by microorganisms and considers all groups of microorganisms for their potential contributions The book also deals with problem areas such as the transport of organisms oxygen or nutrients throughout the subsurface as well as biodegradation of polynuclear aromatic hydrocarbons PAHs and nonaqueous phase liquids NAPLs In addition the book presents a variety of methods for monitoring bioremediation This reference discusses current soil remediation processes and includes many innovative approaches It also investigates means of controlling volatile organic compounds VOCs and leachate and addresses methods for collecting and treating these secondary waste streams The expansive coverage of this book will furnish readers with a wide range of options for developing treatment strategies and for customizing procedures for specific requirements *Assessments And Remediation Of Oil Contaminated Soils* Paul Kostecki, 1999 Paul T Kostecki Associate Director Northeast Regional Environment Public Health Center School Of Public Health University Of Massachusetts At Amherst Received His Ph D From The School Of Natural Resources At The University Of Michigan In 1980 He Has Been Involved With Human And Ecological Risk Assessment And Risk Management Research For The Last 12 Years Dr Kostecki Has Co Authored And Co Edited Over 50 Articles And 16 Books On Environmental Assessment And Cleanup Including Remedial Technologies For Leaking Underground Storage Tanks Soils Contaminated By Petroleum Products Petroleum Contaminated Soils Vols 1 To 3 Hydrocarbon Contaminated Soils And Groundwater Vols 1 To 4 Hydrocarbon Contaminated Soils Vols 1 To 5 Principles And Practices For Diesel Contaminated Soils Vols 1 To 5 Sesoil In Environmental Fate And Risk Modeling Contaminated Soils Vol 1 And Risk Assessment And Environmental Fate Methodologies Dr Kostecki Also Serves As Associate Editor For The Journal Of Soil Contamination Chairman Of The Scientific Advisory Board For Soil And Groundwater Cleanup Magazine As Well As An Editorial Board Member For The Journal Of Human And Ecological Risk Assessment In A Addition Dr Kostecki Serves As Executive Director For The Association For The Environmental Health Of Soils AeHS And Was The Scientific Advisor For The Workshop On Assessment And Remediation Of Oil Contaminated Soils Held In Kuwait 18 22 March 1995 Dr Manaf Behbehani Obtained His B S In Biology From The University Of Akron Usa 1969 And M S In Zoology From The Same University 1972 He Continued His Graduate Studies At The University Of New Hampshire Receiving Ph D In Marine Ecology

And Invertebrates In 1978 Since Then He Has Been Teaching Ecology And Marine Biology Courses At The Faculty Of Science Kuwait University From 1982-1987 He Held The Post Of Marine Scientist At The Regional Organisation For The Protection Of The Marine Environment Ropme In Kuwait Dr Behbehani Has Worked On A Number Of Pioneering Research Projects Namely To Study The Zooplankton Of Kuwaiti Waters And The Western Section Of The Arabian Gulf And To Study The Distribution Abundance And Taxonomy Of Marine Invertebrates Living In The Intertidal Zones Of Kuwait He Has Published Several Scientific Articles And Has Served As External Examiner For Several Masters Thesis From 1991-1995 Dr Behbehani Was Vice Dean For Planning And Laboratories At The Faculty Of Science Kuwait University And Is Presently Chairman Of The National Biodiversity Committee State Of Kuwait He Was The Chairman Of The Scientific Committee For The Workshop On Assessment And Remediation Of Oil Contaminated Soils The Proceedings Of Which Are Published In This Book

Environmental Remediation Technologies for Metal-Contaminated Soils Hiroshi Hasegawa, Ismail Md. Mofizur Rahman, Mohammad Azizur Rahman, 2015-09-28 This book presents a comprehensive and detailed description of remediation techniques for metal contaminated soils derived from both natural processes and anthropogenic activities Using a methodical step by step presentation the book starts by overviewing the origin of toxicants and the correlated comparative extent of contamination to the environment The legal provisions as proposed or applied in different countries are then discussed to explain the global regulatory situation regarding soil contamination and the extent of consequent concern The core part of this publication describes the major techniques for in situ or ex situ treatment of the contaminated soil to meet the regulatory limits Finally risk evaluation is incorporated giving special attention to possible impacts during or after implementation of the remediation strategies The intrusion of metals in soils mostly occurs from various anthropogenic activities e g agricultural practices industrial activities and municipal waste disposal The volumes of metal contaminated soil are becoming greater than before and are ever increasing due to rapid urbanization intensified industrialization and or population booms in certain parts of the world Hence the options previously proposed such as isolation of the contaminated site or movement of the contaminated mass to a secure disposal site after excavation are becoming unsuitable from the economic point of view and instead decontamination alternatives are preferred This book will help readers such as scientists and regulators to understand the details of the remediation techniques available to deal with the soils contaminated by toxic metals

Biodegradation of Hazardous and Special Products Rolando Chamy, 2013-06-14 This book contains a collection of different research activities that include the biodegradation compounds with contaminant characteristics and special products of different interests as an added value product or that allows following up various biological processes The chapters consider the degradation of contaminant compounds generated by industrial activities i e oil industry by product compounds and halogen compounds or compound generated by natural phenomena such as tsunamis which require interventions to recover damaged soils In addition the book contains chapters that involve special product degradation

processes such as chlorophyll which corresponds to a biological process indicator as photosynthesis

Sustainable Bioenergy and Bioproducts Kasthurirangan Gopalakrishnan,J. (Hans) van Leeuwen,Robert C. Brown,2011-11-06 Sustainable Bioenergy and Bioproducts considers the recent technological innovations and emerging concepts in biobased energy production and coproducts utilization Each chapter in this book has been carefully selected and contributed by experts in the field to provide a good understanding of the various challenges and opportunities associated with sustainable production of biofuel Sustainable Bioenergy and Bioproducts covers a broad and detailed range of topics including production capacity of hydrocarbons in the plant kingdom algae and microbes biomass pretreatment for biofuel production microbial fuel cells sustainable use of biofuel co products bioeconomy and transportation infrastructure impacts and assessment of environmental risks and the life cycle of biofuels Researchers practitioners undergraduate and graduate students engaged in the study of biorenewables and members of the well informed public will find Sustainable Bioenergy and Bioproducts to be a useful and comprehensive research tool describing the state of the art and recent developments in this field

Soil Remediation and Plants Khalid Hakeem,Muhammad Sabir,Munir Ozturk,Ahmet Ruhi Mermut,2014-08-29 The soil is being contaminated continuously by a large number of pollutants Among them heavy metals are an exclusive group of toxicants because they are stable and difficult to disseminate into non toxic forms The ever increasing concentrations of such pollutants in the soil are considered serious threats toward everyone s health and the environment Many techniques are used to clean eliminate obliterate or sequester these hazardous pollutants from the soil However these techniques can be costly labor intensive and often disquieting Phytoremediation is a simple cost effective environmental friendly and fast emerging new technology for eliminating toxic heavy metals and other related soil pollutants Soil Remediation and Plants provides a common platform for biologists agricultural engineers environmental scientists and chemists working with a common aim of finding sustainable solutions to various environmental issues The book provides an overview of ecosystem approaches and phytotechnologies and their cumulative significance in relation to solving various environmental problems Identifies the molecular mechanisms through which plants are able to remediate pollutants from the soil Examines the challenges and possibilities towards the various phytoremediation candidates Includes the latest research and ongoing progress in phytoremediation

Green Technologies for Industrial Waste Remediation Abhilasha Singh Mathuriya,Soumya Pandit,Neeraj Kumar Singh,2023-11-29 This proposed book chapter is expected to provide the readers with wide aspects of green technologies for industrial waste remediation The first chapter is dedicated to the introduction to the title of the book The chapter discusses various green technologies for industrial waste remediation After that the second chapter emphasizes the different types of applications of microorganisms in industrial waste treatment After that chapters emphasize the specific area of the title including the micro and nanofiltration technology for the treatment of industrial wastewater methods for the recovery and removal of heavy metals from industrial effluents algal photobioreactor technology for industrial wastewater

treatment carbon capture and energy recovery bioremediation of radioactive wastes membrane based technologies for industrial waste management valorization of agro industrial wastes for biorefinery products bioaccumulation and detoxification of metals through genetically engineered microorganism application of biochar in waste remediation constructed wetlands for industrial wastewater remediation bioelectrochemical treatment of recalcitrant pollutants microplastics petrochemicals including BTEX applications of biosorbents in industrial wastewater treatment Microbial biofilm reactor for sustainable wastewater treatment dye adsorption and degradation using microbial consortium sustainable treatment of endocrine disruptive chemicals released from industries biological nanomaterials for industrial wastewater management vermifiltration as a natural cost effective and green technology for biomanagement of industrial wastewater biocatalytic remediation of industrial pollutants and green treatment of poly aromatic hydrocarbons released from industrial waste All the chapters cover various aspects of sustainable management of industrial wastes covering relevant literature and data Further this book discusses the various advanced techniques methods adopted for the enhancement of waste management like the application of nanoparticles This book discusses other related topics such as algal photobioreactors for carbon dioxide sequestration Further chapters are included to discuss about life cycle assessment of the wastewater treatment tools and commercialization aspects

Proceedings of the 48th Industrial Waste Conference Purdue University, May 1993 Ronald F. Wukasz, 1993-12-28 Known and used throughout the world the Purdue Industrial Waste Conference Proceedings books are the most highly regarded in the waste treatment field New research case histories and operating data cover every conceivable facet of today's big problems in environmental control treatment regulation and compliance This volume representing the proceedings from the 48th conference provides unparalleled information and data for your current waste problems

Total Petroleum Hydrocarbons Saranya Kuppusamy, Naga Raju Maddela, Mallavarapu Megharaj, Kadiyala Venkateswarlu, 2019-08-13 The term total petroleum hydrocarbons TPHs is used for any mixture of several hundred hydrocarbons found in crude oil and they represent the sum of volatile petroleum hydrocarbons and extractable petroleum hydrocarbons The petrol range organics include hydrocarbons from C6 to C10 while diesel range organics are C10 C28 hydrocarbons Environmental pollution by petroleum hydrocarbons is one of the major global concerns particularly in oil yielding countries In fact there are more than five million potentially contaminated areas worldwide that represent in general a lost economic opportunity and a threat to the health and well being of humans and the environment Petroleum contaminated sites constitute almost one third of the total sites polluted with chemicals around the globe The land contamination caused by industrialization was recognized as early as the 1960s but less than a tenth of potentially contaminated lands have been remediated due to the nature of the contamination cost technical impracticability and insufficient land legislation and enforcement This book is the first single source that provides comprehensive information on the different aspects of TPHs such as sources and range of products methods of analysis fate and bioavailability ecological

implications including impact on human health potential approaches for bioremediation such as risk based remediation and regulatory assessment procedures for TPH contaminated sites As such it is a valuable resource for researchers graduate students technicians in the oil industry and remediation practitioners as well as policy makers Proceedings of the Indian Geotechnical Conference 2019 Satyajit Patel,C. H. Solanki,Krishna R. Reddy,Sanjay Kumar Shukla,2021-05-05 This book comprises select proceedings of the annual conference of the Indian Geotechnical Society The conference brings together research and case histories on various aspects of geotechnical and geoenvironmental engineering The book presents papers on geotechnical applications and case histories covering topics such as i Characterization of Geomaterials and Physical Modelling ii Foundations and Deep Excavations iii Soil Stabilization and Ground Improvement iv Geoenvironmental Engineering and Waste Material Utilization v Soil Dynamics and Earthquake Geotechnical Engineering vi Earth Retaining Structures Dams and Embankments vii Slope Stability and Landslides viii Transportation Geotechnics ix Geosynthetics Applications x Computational Analytical and Numerical Modelling xi Rock Engineering Tunnelling and Underground Constructions xii Forensic Geotechnical Engineering and Case Studies and xiii Others Topics Behaviour of Unsaturated Soils Offshore and Marine Geotechnics Remote Sensing and GIS Field Investigations Instrumentation and Monitoring Retrofitting of Geotechnical Structures Reliability in Geotechnical Engineering Geotechnical Education Codes and Standards and other relevant topics The contents of this book are of interest to researchers and practicing engineers alike **Mining Impact on Soil and Water Resources** Ashwani Kumar Tiwari,T.N. Singh,Abhay Kumar Singh,2025-04-29 The subject matter of this book is divided into two sections detailing Soil focussing on geochemistry contamination and remediation and Water focussing on hydrogeochemistry crisis desertification and modelling including case studies review studies and essential soil remediation and water It also explores management practices to explain soil water interaction acid mine drainage problems and contamination levels in water and soil resources The main topics discussed include soil water interaction mining impact on water and soil geochemistry mining impact on water and soil quality martials impact groundwater level depletion contamination evaluation health risk assessment water treatment soil remediation remote sensing and geographical information system GIS contaminant transport modelling and water soil resources management Emphasis is also given to the new approach to sustainable water and soil resources management Features Integrates research in soil and environmental resources management in mining Describes soil resources management in mining regions Covers water geochemistry and contaminant transport modelling Provides solutions for acid mine drainage problems Includes the role of remote sensing and GIS This book is aimed at researchers and graduate students in soil resources management mining and environment science Microbial Bioremediation and Multiomics Technologies for Sustainable Development Fuad Ameen,Sartaj Ahmad Bhat,Vineet Kumar,2024-08-02 Discover the latest advances in the area of microbial bioremediation with a particular focus on the exciting new field of multiomics technologies Biotechnological Interventions in the Removal of Emerging Pollutants

Satarupa Dey, Sayan Bhattacharya, 2025-02-24 This book focuses on the most recent developments in bioremediation techniques exploring how microorganisms can break down different pollutants and the future potential of bioremediation to reduce global pollution levels It examines the impact of various emerging pollutants on the environment and the health of living organisms while highlighting recent advancements in bioremediation methods needed to degrade these pollutants Addressing both inorganic and organic compounds from industrial and anthropogenic activities including personal care products endocrine disruptors and pharmaceutical products this book tackles pollutants that escape conventional water treatment processes contaminating groundwater soil sediments and oceans The chapters also cover topics such as the toxicity and health impacts of emerging pollutants ecotoxicological effects of nanoparticles policies related to emerging pollutants technologies for their detection and technological aspects of their fate during wastewater treatment Readers will find a comprehensive examination of the roles of microbes in bioremediation including the elimination degradation detoxification and immobilization of pollutants The book also introduces enzyme biotechnology as a cost effective low energy eco friendly technology for treating various pollutants Furthermore it discusses the combination of physical treatment and nanotechnology for sustainable pollutant removal This book serves as a valuable resource for policymakers aiming to develop effective environmental regulations educators seeking comprehensive educational material researchers looking to expand their knowledge on advanced bioremediation techniques climate change scientists dedicated to mitigating pollution and undergraduate and graduate students studying agriculture forestry ecology soil science or environmental sciences

Encyclopedia of Chemical Processing Sunggyu Lee, 2006 Supplying nearly 350 expertly written articles on technologies that can maximize and enhance the research and production phases of current and emerging chemical manufacturing practices and techniques this second edition provides gold standard articles on the methods practices products and standards recently influencing the chemical industries New material includes design of key unit operations involved with chemical processes design unit operation and integration of reactors and separation systems process system peripherals such as pumps valves and controllers analytical techniques and equipment current industry practices and pilot plant design and scale up criteria

Bioremediation and Phytoremediation Technologies in Sustainable Soil Management Junaid Ahmad Malik, Megh R. Goyal, Khursheed Ahmad Wani, 2022-06-30 This 4 volume set focuses on the use of microbial bioremediation and phytoremediation to clean up pollutants in soil such as pesticides petroleum hydrocarbons metals and chlorinated solvents which reduce the soil's fertility and renders it unfit for plant growth The volumes cover the many diverse eco friendly microbial bioremediation and phytoremediation techniques for sustainable soil management Volume 4 Degradation of Pesticides and Polychlorinated Biphenyls addresses pesticide degradation PCBs degradation and genetic interventions It begins by describing environmental pesticide degradation mechanisms and sustainability microbes and microbial enzymes plant microbe interactions organophosphorus degradations and endosulfan degradation It then goes

on to discuss PCBs and degradation cypermethrin degradation by *Phanerochaete chrysosporium* and carvone and surfactants for degradation of PCBs The book also advocates for genetic systems for degradation of PCBs and pesticides with discussion of the different advantages and disadvantages for each strategy and the various techniques Other volumes in the 4 volume set Volume 1 Fundamental Aspects and Contaminated Sites Volume 2 Microbial Approaches and Recent Trends Volume 3 Inventive Techniques Research Methods and Case Studies Together these four volumes provide in depth coverage of the mechanisms advantages and disadvantages of the bioremediation and phytoremediation technologies for safe and sustainable soil management

Microbial Applications Vijai Kumar Gupta, Susanne Zeilinger, Edivaldo X. Ferreira Filho, Maria Carmen Durán-Dominguez-de-Bazua, Diane Purchase, 2016-12-05 Microbial applications encompass areas including biotechnology chemical engineering and alternative fuel development Research on their technological developments cover many aspects of work using microbes as cell factories The fields of biotechnology chemical engineering pharmaceuticals diagnostics and medical device development also employ these microbial products There is an urgent need to integrate all these disciplines that caters to the need of all those who are interested to work in the area of microbial technologies This book is a step forward to integrate the aforesaid frontline branches into an interdisciplinary research work quenching the academic as well as research thirst of all those concerned about microbes in the respective area of biotechnology chemical engineering and pharmaceuticals All the chapters in this book are related to important research on microbial applications written by international specialists for researchers and academics in the concerned disciplines This publication aims to provide a detailed compendium of experimental work and information used to investigate different aspects of microbial technologies their products as well as interdisciplinary interactions including biochemistry of metabolites in a manner that reflects the recent developments of relevance to researchers scientists investigating microbes

Handbook of Environmental Remediation Chaudhery Mustansar Hussain, 2020-03-19 Environmental remediation technologies to control or prevent pollution from hazardous waste material is a growing research area in academia and industry and is a matter of utmost concern to public health to improve ecology and to facilitate the redevelopment of a contaminated site Recently in situ and ex situ remediation technologies have been developed to rectify the contaminated sites utilizing various tools and devices through physical chemical biological electrical and thermal processes to restrain remove extract and immobilize mechanisms to minimize the contamination effects This handbook brings altogether classical and emerging techniques for hazardous wastes municipal solid wastes and contaminated water sites combining chemical biological and engineering control methods to provide a one stop reference This handbook presents a comprehensive and thorough description of several remediation techniques for contaminated sites resulting from both natural processes and anthropogenic activities Providing critical insights into a range of treatments from chemical oxidation thermal treatment air sparging electrokinetic remediation stabilization solidification permeable reactive barriers thermal desorption and incineration phytoremediation

biostimulation and bioaugmentation bioventing and biosparging through ultrasound assisted remediation methods electrochemical remediation methods and nanoremediation this handbook provides the reader an inclusive and detailed overview and then discusses future research directions Closing chapters on green sustainable remediation economics health and safety issues and environmental regulations around site remediation will make this a must have handbook for those working in the field

Permafrost Soils Rosa Margesin, 2008-10-31 Most of the Earth's biosphere is characterized by low temperatures Vast areas 20% of the soil ecosystem are permanently frozen or are unfrozen for only a few weeks in summer Permafrost regions occur at high latitudes and also at high elevations a significant part of the global permafrost area is represented by mountains Permafrost soils are of global interest since a significant increase in temperature is predicted for polar regions Global warming will have a great impact on these soils especially in northern regions since they contain large amounts of organic carbon and act as carbon sinks and a temperature increase will result in a release of carbon into the atmosphere Additionally the intensified release of the climate relevant tracer gas methane represents a potential environmental hazard Significant numbers of viable microorganisms including bacteria archaea phototrophic cyanobacteria and green algae fungi and protozoa are present in permafrost and the characteristics of these microorganisms reflect the unique and extreme conditions of the permafrost environment Remarkably these microorganisms have been reported to be metabolically active at subzero temperatures even down to 20 °C

Soil-Water, Agriculture, and Climate Change

Swatantra Kumar Dubey, Prakash Kumar Jha, Pankaj Kumar Gupta, Aliva Nanda, Vivek Gupta, 2022-11-05 This book presents an exploration of linkages among soil water agriculture and climate change with a special focus on thematic areas for assessment mitigation and management of natural resources under climate change conditions This book covers advances in modelling approaches including machine learning ML artificial intelligence AI applications GIS and remote sensing sensors impacts of climate change on agriculture subsurface water contaminants and socio economic impacts which are lacking in a more comprehensive manner in the previous titles This book encompasses updated information as well as future directions for researchers working in the field of management of natural resources The goal of this book is to provide scientific evidence to researchers and policymakers and end-to-end value chain practitioners which may help in reducing the overall adverse impacts of climate change on water resources and the related mitigation strategies This book focuses on the knowledge modern tools and techniques i.e. machine learning artificial intelligence etc for soil water agriculture and climate change Further nature based solutions for management of natural resources with special targets on contaminants extreme events disturbances etc will be targeted The book provides readers with the enhanced knowledge for application of engineering principles and economic and regulatory constraints to determine a soil water agriculture production action strategy and select appropriate technologies to implement the strategy for a given data set at a site It would also cover the application of laboratory modeling numerical methods for determination and forecasting of climate change impacts

agriculture production pollution soil health etc Overall it provides hydrologists environmental engineers administrators policy makers consultants and industrial experts with essential support in effective management of soils health agricultural productions and mitigation of extreme climatic events **Soil and Your Health** Beatrice Trum Hunter,2004 In *Soil and Your Health* eminent health writer and environmentalist Beatrice Trum Hunter discusses the natural resource that grows our fruits and vegetables The quality of food depends on the quality of the soil in which it is grown Is organically produced food superior to conventionally grown food How do earthworms and trace minerals benefit the soil and the food and feed grown on it How do intentionally applied fertilizers pesticides and sludge as well as inadvertent contaminant affect soil Hunter responds to the mounting soil quality crisis with hopeful answers and measures beginning in our own gardens and farms

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