

REMEDIATION OF PETROLEUM CONTAMINATED SOILS

Biological, Physical, and Chemical Processes

Eve Riser-Roberts

Remediation Of Petroleum Contaminated Soils Biological Physical And Chemical Processes

**Satyajit Patel, C. H. Solanki, Krishna R.
Reddy, Sanjay Kumar Shukla**



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

Remediation of Petroleum-contaminated Soils David J. Friend, 1996 This synthesis will be of interest to state transportation personnel involved with project planning and location administrative and regulatory personnel design staff general civil geotechnical and environmental engineers and project managers construction and maintenance engineers and staff It will also be of interest to federal and state environmental agencies and to environmental consultants and contractors as well as to trainers in the field of petroleum contaminated soil remediation This synthesis describes the remedial technologies that may be available to transportation agencies faced with the regulatory responsibility to clean or remediate

petroleum contaminated soils in the vadose zone unsaturated soils above the groundwater table at a particular site as well as the state of the practice within the agencies This report of the Transportation Research Board describes the applicability and cost effectiveness of alternate technologies to remediate petroleum contaminated soil Practices currently being used by state transportation agencies to remediate petroleum contaminated soils both on site and off site are also described This summary of transportation agency practice complements the limited telephone survey of soil remediation techniques that was performed in preparing NCHRP Report 351 Hazardous Wastes in Highway Rights of Way

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

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 *Phase II Final Report, NATO/CCMS Pilot Study*, 1998

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

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 *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 **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

Groundwater Pollution in Africa Yongxin Xu,Brent Usher,2006-10-05 In 2000 various UN organizations launched a collaborative effort to assess the vulnerability of groundwater in several African cities The project addressed the issue of aquifer vulnerability and the protection of groundwater quality This book is a collection of thirty peer reviewed papers on the topic and provides a glimpse of the situation acr 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

Soil Contamination Marcelo L. Larramendy, Sonia Soloneski, 2021-06-23 This edited book *Soil Contamination Threats and Sustainable Solutions* is intended to provide an update on different aspects of soil contamination exerted by a multiplicity of exogenous and endogenous causes We hope that this book will continue to increase information from diverse sources and to give some real life examples extending the appreciation of the complexity of this subject in a way that may stimulate new approaches in relevant fields

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

Encyclopedia of Chemical Processing (Online) Sunggyu Lee, 2005-11-01 This second edition Encyclopedia supplies nearly 350 gold standard articles on the methods practices products and standards influencing the chemical industries It offers expertly written articles on technologies at the forefront of the field to maximize and enhance the research and production phases of current and emerging chemical manufacturing practices and techniques This collecting of information is of vital interest to chemical polymer electrical mechanical and civil engineers as well as chemists and chemical researchers A complete reconceptualization of the classic reference series the Encyclopedia of Chemical Processing and Design whose first volume published in 1976 this resource offers extensive A Z treatment of the subject in five simultaneously published volumes with comprehensive indexing of all five volumes in the back matter of each tome It includes material on the design of key unit operations involved with chemical processes the design unit operation and

integration of reactors and separation systems process system peripherals such as pumps valves and controllers analytical techniques and equipment and pilot plant design and scale up criteria This reference contains well researched sections on automation equipment design and simulation reliability and maintenance separations technologies and energy and environmental issues Authoritative contributions cover chemical processing equipment engineered systems and laboratory apparatus currently utilized in the field It also presents expert overviews on key engineering science topics in property predictions measurements and analysis novel materials and devices and emerging chemical fields ALSO AVAILABLE ONLINE This Taylor E mail e reference taylorandfrancis com International Tel 44 0 20 7017 6062 E mail online sales tandf co uk

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 *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

Phytoremediation for Green Energy Münir Öztürk, Muhammad Ashraf, Ahmet Aksoy, Muhammad Sajid Aqeel Ahmad, 2014-10-13 Human demand for energy has grown multi folds in recent years This is the result of rapidly increasing human population which in turn has resulted in increased organic petroleum and inorganic pollution on the biosphere Due to this we are now facing a number of challenges to sustain life on earth For example the increased organic and inorganic pollution in our environment is leading to loss of biodiversity degradation of environment and thus ultimately causing food insecurity In this situation it is imperative to keep updated ourselves with advances on the effects of pollutants tolerance mechanisms and the potential of different plants and microbes in removing these pollutants from the environment For this purpose we invited a number of scientists worldwide to review the current scenario of the problems current development and future prospects of the challenges and their solutions in an International Conference on Plants and Environmental Pollution held in KAYSERI TURKEY from 6 11 July 2009 The output of this conference has been summarized in the form of this book

Soil Remediation Science and Technology Jose Julio Ortega-Calvo, Frederic Coulon, 2024-06-21 This book reviews the latest advances in soil remediation and is an authoritative account of the environmental chemistry microbiology ecotoxicology and regulation policies of soil pollution The book also discusses possible pathways for innovation by incorporating state of the art knowledge on sustainability nature based solutions and socio economical aspects Divided into four parts the book opens with an overview of the legal context and policy economy of soil pollution and remediation The management of contaminated soils has a high cost and although much of this cost is borne by companies there is also high public spending The strategic value of soil the extensive costs associated with the remediation of many polluted sites throughout the World and the current crisis demand for new solutions to soil remediation that are addressed in the following parts of the book In this book readers will find a comprehensive description of several remediation strategies by different pollution sources nature based solutions and physicochemical methods for the remediation of contaminated soils Particular attention is given to contaminated soils from industrial activities urban settings mining and military activities In the final chapter of the book the editors present a perspective of the field research trends and needs Given its breadth this book appeals to regulators industrial scientists and scholars alike

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