

Wastewater Design, Operations, and Maintenance Handbook for Treating Hydrocarbon-Contaminated Soils



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Biopile Design Operation Maintenance Handbook For Treating Hydrocarbon Contaminated Soils

Charles Lord



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Michael Fahnestock, 1998 This handbook gives the reader the knowledge and tools to efficiently select design construct operate maintain and close out a biopile system As an added feature the Biopile Cost Estimator software included in each handbook enables easy estimation of capital operating and unit treatment costs This software gives the user the flexibility to use default values or to input site specific design variables such as capacity labor rates analytical costs and expected project life The book starts with a general biopile technology overview and continues with detailed descriptions of selection criteria regulatory issues design parameters and construction procedures Appendices include ready to use calculation sheets with completed problem checklists and data sheets a general health and safety plan and a troubleshooting guide *Manual for Soil Analysis - Monitoring and Assessing Soil Bioremediation* Rosa Margesin, Franz Schinner, 2005-12-15 Reliable methods for monitoring and assessing soil quality are a prerequisite for successful soil bioremediation projects The fifth volume of Soil Biology presents detailed descriptions of selected methods for evaluating monitoring and assessing bioremediation treatments of soils contaminated with organic pollutants or heavy metals Traditional soil investigation techniques including chemical physical and microbiological methods are complemented by the most suitable modern methods such as the use of bioreporter technology immunological ecotoxicological or molecular assays Feasibility studies for bioremediation treatments complete the manual Easy to follow protocols with step by step procedures lists of the required equipment and reagents as well as notes on the evaluation and quality control allow immediate application Short introductions to the principles and objectives help to assess the field of application of each procedure **Applied Bioremediation and Phytoremediation**

Ajay Singh, Owen P. Ward, 2013-06-29 The huge expansion of the chemical and petroleum industries in the twentieth century has resulted in the production of a vast array of chemical compounds and materials that have transformed our lives The associated large scale manufacturing processing and handling activities have caused a serious deterioration in environmental quality and created threats to human health These negative impacts have led to responses and regulations requiring remedial action in support of environmental sustainability of biotechnological methods through bioremediation Application has gained prominence as an option for soil remediation methods Bioremediation is a multidisciplinary approach where biologists chemists soil scientists and engineers work as team to develop and implement remediation processes Bioremediation has now been used successfully to remediate many petroleum contaminated sites However there are as yet no commercial technologies commonly used to remediate the most recalcitrant contaminants Nevertheless bioremediation is a rapidly advancing field and new bio based remedial technologies are continuing to emerge Bioremediation of Emerging Contaminants from Soils Prasann Kumar, Veena Chaudhary, Eric D. van Hullebusch, Rosa Busquets, Arun Lal Srivastav, 2024-05-09 Bioremediation of Emerging Contaminants from Soils Soil Health Conservation Along with Food

Security deals with current challenges of sustainable soil health using eco friendly approaches This book provides ways of reducing the chemicals burden on the soil by maintaining balance in terms of society environment and economy which are considered basic pillars of sustainability Designed to highlight soil health best practices for both environmental and agricultural sustainability these approaches are also considered important for improving global food security by ensuring safe growing conditions for crops for food and feed Presented in two parts the book first highlights emerging contaminants and their sources The second part explores a variety of steps and tools for addressing contaminated soils including bio and phytoremediation options Case studies in each part provide real world insights for practical application This book will be unique in the specified area of sustainability using the principles of bioremediation Moreover scientists researchers and policymakers will receive insights to develop and explore innovate approaches to achieve sustainable development goals Contains the latest practical and theoretical aspects of the soil health crisis and its management Presents collective information to ensure the remediation of soil from emerging contaminants Serves as baseline information for environmental issues in agriculture along with their alternative eco friendly solutions

Soil Degradation, Conservation and Remediation Khan Towhid Osman,2013-10-01 In view of the grave consequences of soil degradation on ecosystem functions food security biodiversity and human health this book covers the extent causes processes and impacts of global soil degradation and processes for improvement of degraded soils Soil conservation measures including soil amendments decompaction mulching cover cropping crop rotation green manuring contour farming strip cropping alley cropping surface roughening windbreaks terracing sloping agricultural land technology SALT dune stabilization etc are discussed Particular emphasis is given to soil pollution and the methods of physical chemical and biological remediation of polluted soils This book will lead the reader from the basics to a comprehensive understanding of soil degradation conservation and remediation

Innovative Bio-Based Technologies for Environmental Remediation Pardeep Singh,Chaudhery Mustansar Hussain,Mika Sillanpää,2022-01-20 Innovative Bio Based Technologies for Environmental Remediation explores the recent applications of both the latest and broad practical and theoretical aspects of environmental remediation with an aim to combine various innovation based biotechnology for waste management waste minimization and waste to economy This book summarizes the recent progress of bio based technologies for environmental remediation at both an experimental and a theoretical model level An emphasis has been made on trends and the probable future of sustainable techniques to reduce waste and harmful compounds from the environment Biological based technologies have low operating costs and involve direct degradation of organic pollutants without the release of toxic intermediates Recent applications covered in this book include process intensification in bio based approaches green technology phytoremediation biopolymers biosurfactants for environmental applications and other bio based technologies with sustainable design and the future of remediation are also discussed This book is an important reference source for environmental scientists and engineers who are seeking to improve their understanding of how bio

based technologies are playing an increasingly important role in environmental remediation It brings together recent innovations and practices of bio based technologies for environmental remediation outlines major bio based technologies and discusses biopolymers and biosurfactants for environmental management

Environmental Microbiology Ralph Mitchell, Ji-Dong Gu, 2010-01-08 The bestselling reference on environmental microbiology now in a new edition This is the long awaited and much anticipated revision of the bestselling text and reference Based on the latest information and investigative techniques from molecular biology and genetics this Second Edition offers an in depth examination of the role of microbiological processes related to environmental deterioration with an emphasis on the detection and control of environmental contaminants Its goal is to further our understanding of the complex microbial processes underlying environmental degradation its detection and control and ultimately its prevention Features new to this edition include A completely new organization with topics such as pathogens in developing countries effects of genetically modified crops on microbial communities and transformations of toxic metals Comprehensive coverage of key topics such as bacteria in the greenhouse and low energy waste treatment New coverage relating core book content to local regional and global environmental problems Environmental Microbiology Second Edition is essential reading for environmental microbiologists and engineers general environmental scientists chemists and chemical engineers who are interested in key current subjects in environmental microbiology It is also appropriate as a textbook for courses in environmental science chemistry engineering and microbial ecology at the advanced undergraduate and graduate levels

Practical Handbook of Soil, Vadose Zone, and Ground-Water Contamination J. Russell Boulding, Jon S. Ginn, 2016-04-19 A synthesis of years of interdisciplinary research and practice the second edition of this bestseller continues to serve as a primary resource for information on the assessment remediation and control of contamination on and below the ground surface Practical Handbook of Soil Vadose Zone and Ground Water Contamination Assessment Prev

Guide to Information Sources in Engineering Charles Lord, 2000-08-15 The only source that focuses exclusively on engineering and technology this important guide maps the dynamic and changing field of information sources published for engineers in recent years Lord highlights basic perspectives access tools and English language resources directories encyclopedias yearbooks dictionaries databases indexes libraries buyer s guides Internet resources and more Substantial emphasis is placed on digital resources The author also discusses how engineers and scientists use information the culture and generation of scientific information different types of engineering information and the tools and resources you need to locate and access that material Other sections describe regulations standards and specifications government resources professional and trade associations and education and career resources Engineers scientists librarians and other information professionals working with engineering and technology information will welcome this research

Environmental Health Perspectives ,1993

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