



ELECTROKINETICS

for Petroleum
and
Environmental
Engineers

George V. Chilingar
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Electrokinetics For Petroleum And Environmental Engineers

Julia Schneider



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Electrokinetics for Petroleum and Environmental Engineers G. V. Chilingar, Mohammed Haroun, 2014-10-08

Electrokinetics is a term applied to a group of physicochemical phenomena involving the transport of charges action of charged particles effects of applied electric potential and fluid transport in various porous media to allow for a desired migration or flow to be achieved These phenomena include electrokinetics electroosmosis ion migration electrophoresis streaming potential and electroviscosity These phenomena are closely related and all contribute to the transport and migration of different ionic species and chemicals in porous media The physicochemical and electrochemical properties of a porous medium and the pore fluid and the magnitudes of the applied electrical potential all impact the direction and velocity of the fluid flow Also an electrical potential is generated upon the forced passage of fluid carrying charged particles through a porous medium The use of electrokinetics in the field of petroleum and environmental engineering was groundbreaking when George Chilingar pioneered its use decades ago but it has only been in recent years that its full potential has been studied This is the first volume of its kind ever written offering the petroleum or environmental engineer a practical how to book on using electrokinetics for more efficient and better oil recovery and recovery from difficult reservoirs This groundbreaking volume is a must have for any petroleum engineer working in the field and for students and faculty in petroleum engineering departments worldwide

Electrokinetics for Petroleum and Environmental Engineers George V. Chilingar, 2016-02-08

Environmental Aspects of Oil and Gas Production J. O. Robertson, G. V. Chilingar, 2017-06-15 Oil and gas still power the bulk of our world from automobiles and the power plants that supply electricity to our homes and businesses to jet fuel plastics and many other products that enrich our lives With the relatively recent development of hydraulic fracturing fracking multilateral directional and underbalanced drilling and enhanced oil recovery oil and gas production is more important and efficient than ever before Along with these advancements as with any new engineering process or technology come challenges many of them environmental More than just a text that outlines the environmental challenges of oil and gas production that have always been there such as gas migration and corrosion this groundbreaking new volume takes on the most up to date processes and technologies involved in this field Filled with dozens of case studies and examples the authors two of the most well known and respected petroleum engineers in the world have outlined all of the major environmental aspects of oil and gas production and how to navigate them achieving a more efficient effective and profitable operation This groundbreaking volume is a must have for any petroleum engineer working in the field and for students and faculty in petroleum engineering departments worldwide

Enhanced Oil Recovery O. R. Ganiev, R. F. Ganiev, L. E. Ukrainsky, 2016-12-15 Fossil fuels especially petroleum are still the primary energy source all over the world With the advent of hydraulic fracturing i e fracking directional drilling and other technological advances petroleum and reservoir engineers all over the world have been able to produce much greater results in much more difficult areas than ever

before to meet higher global demand Enhanced oil recovery EOR is one of the hottest and most important topics in this industry New technologies and processes must be continually discovered and developed even as renewable energy begins to grow and become more fruitful as the demand for more and more energy continues to grow worldwide This groundbreaking and highly anticipated study discusses the scientific fundamentals of resonance macro and micro mechanics of petroleum reservoirs and its petroleum industry applications It contains an overview of the research and engineering results of resonance macro and micro mechanics of petroleum reservoirs which provide the scientific and applied foundations for the creation of groundbreaking wave technologies for production stimulation and enhanced oil recovery A valuable tool for the petroleum or reservoir engineer in the field this volume is also intended for students teachers scientists and practitioners who are interested in the fundamentals development and application of leading edge technologies in the petroleum industry and other industrial sectors

Acoustic and Vibrational Enhanced Oil Recovery George V. Chilingar, Kazem Majid Sadeghi, Oleg Leonidovich Kuznetsov, 2022-06-01 ACOUSTIC AND VIBRATIONAL ENHANCED OIL RECOVERY Oil and gas is still a major energy source all over the world and techniques like these which are more environmentally friendly and inexpensive than many previous development and production technologies are important for making fossil fuels more sustainable and less hazardous to the environment Based on research they did in the 1970s in Russia and the United States the authors discovered that oil rate production increased noticeably several days after the occurrence of an earthquake when the epicenter of the earthquake was located in the vicinity of the oil producing field The increase in oil flow remained higher for a considerable period of time and it led to a decade long study both in the Russia and the US which gradually focused on the use of acoustic vibrational energy for enhanced oil recovery after reservoirs waterflooded In the 1980s they noticed in soil remediation studies that sonic energy applied to soil increases the rate of hydrocarbon removal and decreases the percentage of residual hydrocarbons In the past several decades the use of various seismic vibration techniques have been used in various countries and have resulted in incremental oil production This outstanding new volume validates results of vibro stimulation tests for enhanced oil recovery using powerful surface based vibro seismic sources It proves that the rate of displacement of oil by water increases and the percentage of nonrecoverable residual oil decreases if vibro energy is applied to the porous medium containing oil Audience Petroleum Engineers Chemical Engineers Earthquake and Energy engineers Environmental Engineers Geotechnical Engineers Mining and Geological Engineers Sustainability Engineers Physicists Chemists Geologists and other professionals working in this field

Handbook of Environmental Engineering Myer Kutz, 2018-07-25 A comprehensive guide for both fundamentals and real world applications of environmental engineering Written by noted experts Handbook of Environmental Engineering offers a comprehensive guide to environmental engineers who desire to contribute to mitigating problems such as flooding caused by extreme weather events protecting populations in coastal areas threatened by rising sea levels reducing illnesses caused by polluted air soil and water from improperly

regulated industrial and transportation activities promoting the safety of the food supply Contributors not only cover such timely environmental topics related to soils water and air minimizing pollution created by industrial plants and processes and managing wastewater hazardous solid and other industrial wastes but also treat such vital topics as porous pavement design aerosol measurements noise pollution control and industrial waste auditing This important handbook Enables environmental engineers to treat problems in systematic ways Discusses climate issues in ways useful for environmental engineers Covers up to date measurement techniques important in environmental engineering Reviews current developments in environmental law for environmental engineers Includes information on water quality and wastewater engineering Informs environmental engineers about methods of dealing with industrial and municipal waste including hazardous waste Designed for use by practitioners students and researchers Handbook of Environmental Engineering contains the most recent information to enable a clear understanding of major environmental issues

Environmental Friendly Green Technologies for Improvement of Heavy Crude Oil Flow Assurance Shirsendu Banerjee, Sankha Chakraborty, Jayato Nayak, Suraj K. Tripathy, Maulin Shah, 2025-05-19 This book focuses on microbial prevention the employment of specific segregated microorganisms which can be environmental friendly and efficient technique for both prevention and degradation of wax in pipelines and during enhanced oil recovery EOR The demand for oil and gas as a primary source of energy is expected to reach to about 110 million barrels per day by 2040 Discovery of new conventional oil fields has declined while its demand has risen rapidly in the last decade as crude oil still remains the primary source of energy Hence oil industries face a challenge of increasing production and transportation of crude oil from reservoirs which are unconventional Reservoir to refinery transportation of heavy and waxy crude oils requires more technical expertise due its high viscosity high asphaltene and paraffin content along with wax deposition and agglomeration of wax on the inner walls of the pipelines and equipments This book also boosts the knowledge of students researchers scientists professors engineers and professionals who aspire to work in the field of petroleum engineering and related fields of oil production and transportation environmental science environmental biotechnology environmental microbiology civil environmental engineering eco toxicology and other relevant areas of sustainable technologies by helping them understand all the necessary technicalities of organic deposition phenomenon i e cause process problems arising due to deposition detection of the parameters responsible for the deposition mitigation and most importantly and its eradication

Electrokinetic Remediation for Environmental Security and Sustainability Alexandra B. Ribeiro, Majeti Narasimha Vara Prasad, 2021-03-05 Electrokinetic Remediation for Environmental Security and Sustainability Explore this comprehensive reference on the remediation of contaminated substrates filled with cutting edge research and practical case studies Electrokinetic Remediation for Environmental Security and Sustainability delivers a thorough review of electrokinetic remediation EKR for the treatment of inorganic and organic contaminants in contaminated substrates The book highlights recent progress and developments in EKR in the areas of resource recovery the

removal of pollutants and environmental remediation It also discusses the use of EKR in conjunction with nanotechnology and phytoremediation Throughout the book case studies are presented that involve the field implementation of EKR technologies The book also includes discussions of enhanced electrokinetic remediation of dredged co contaminated sediments solar powered bioelectrokinetics for the mitigation of contaminated agricultural soil advanced electro fenton for remediation of organics electrokinetic remediation for PPCPs in contaminated substrates and the electrokinetic remediation of agrochemicals such as organochlorine compounds Other topics include A thorough introduction to the modelling of electrokinetic remediation An exploration of the electrokinetic recovery of tungsten and removal of arsenic from mining secondary resources An analysis of pharmaceutically active compounds in wastewater treatment plants with a discussion of electrochemical advanced oxidation as an on site treatment A review of rare earth elements including general concepts and recovery techniques like electrodialytic extraction A treatment of hydrocarbon contaminated soil in cold climate conditions Perfect for environmental engineers and scientists geologists chemical engineers biochemical engineers and scientists working with green technology Electrokinetic Remediation for Environmental Security and Sustainability will also earn a place in the libraries of academic and industry researchers engineers regulators and policy makers with an interest in the remediation of contaminated natural resources

Electrochemically Assisted Remediation of Contaminated Soils M. A. Rodrigo, E. V. Dos Santos, 2021-06-15 This book provides an overview of the current development status of remediation technologies involving electrochemical processes which are used to clean up soils that are contaminated with different types of contaminants organics inorganics metalloids and radioactive Written by internationally recognized experts it comprises 21 chapters describing the characteristics and theoretical foundations of various electrochemical applications of soil remediation The book's opening section discusses the fundamental properties and characteristics of the soil which are essential to understand the processes that can most effectively remove organic and inorganic compounds This part also focuses on the primary processes that contribute to the application of electrochemically assisted remediation hydrodynamic aspects and kinetics of contaminants in the soil It also reviews the techniques that have been developed for the treatment of contaminated soils using electrochemistry and discusses different strategies used to enhance performance the type of electrode and electrolyte and the most important operating conditions In turn the book's second part deals with practical applications of technologies related to the separation of pollutants from soil Special emphasis is given to the characteristics of these technologies regarding transport of the contaminants and soil toxicity after treatment The third part is dedicated to new technologies including electrokinetic remediation and hybrid approaches for the treatment of emerging contaminants by ex situ and in situ production of strong oxidant species used for soil remediation It also discusses pre pilot scale for soil treatment and the use of solar photovoltaic panels as an energy source for powering electrochemical systems which can reduce both the investment and maintenance costs of electrochemically assisted processes

Transport Modeling for

Environmental Engineers and Scientists Mark M. Clark, 2011-09-20 Transport Modeling for Environmental Engineers and Scientists Second Edition builds on integrated transport courses in chemical engineering curricula demonstrating the underlying unity of mass and momentum transport processes It describes how these processes underlie the mechanics common to both pollutant transport and pollution control processes **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

Transactions of the American Institute of Mining, Metallurgical and Petroleum Engineers American Institute of Mining, Metallurgical, and Petroleum Engineers, 1983 Some vols 1920 1949 contain collections of papers according to subject **Managing Contaminated Sites** D. Kofi Asante-Duah, 1996 The effective management of contaminated sites is

an important environmental issue requiring comprehensive corrective planning The focus of the book is to synthesise technically sound principles techniques that can be applied worldwide Interfacial Science for Geosystems Engineers

Kishore K. Mohanty, William R. Rossen, Chun Huh, 2024-06-20 Interfacial Science for Geosystems Engineers provides geoscientists the connections between the nano scale physico chemical interactions between fluids and minerals and the core field scale observations to manage energy extraction water resources and subsurface storage timely topics central to the energy transition Packed with latest research and recent developments chapter learning objectives and illustrative diagrams tables and charts throughout this specialized volume will help geosystems engineers tackle the above challenges by systematically going through the basics of surface and interfacial tension capillarity surfactants surface free energy adsorption electrokinetics colloidal stability equilibrium and stability of thin liquid films wettability microemulsions emulsions

and foams and polymers for subsurface applications Useful as a teaching training or reference text Interfacial Science for Geosystems Engineers prepares today s subsurface scientists and engineers to tackle two pressing problems in the energy transition by introducing recent developments on how to remove CO₂ from our environment and how to wean ourselves off fossil energy while meeting growing energy demands Describes fundamentals and recent advances in interface and nanoparticle colloid dispersion science Offers critical analysis of the latest research and developments relevant to extracting low carbon and other energy materials from and store CO₂ and H₂ in subsurface formations Helps guide geosystems especially energy engineers on how to solve the problems they encounter in the rapidly evolving Energy Transition

Principles and Practices for Petroleum Contaminated Soils Paul T. Kostecki,2019-07-16 Principles and Practices for Petroleum Contaminated Soils includes some of the best research and practical work done by top researchers in the field both in industry and academia It covers fundamental and advanced topics such as analysis and site assessment techniques e g vacuum extraction asphalt incorporation and case studies The book will interest anyone working with contaminated soils ground water and underground storage tanks It will also be a valuable reference for regulatory personnel and environmental consultants at all levels **Proceedings of the American Power Conference** ,1996 **Reviews of Environmental**

Contamination and Toxicology Volume 236 Pim de Voogt,2015-09-30 Reviews of Environmental Contamination and Toxicology provides concise critical reviews of timely advances philosophy and significant areas of accomplished or needed endeavor in the total field of xenobiotics in any segment of the environment as well as toxicological implications

Advances in Hazardous Industrial Waste Treatment Lawrence K. Wang,Nazih K. Shammam,Yung-Tse Hung,2008-09-09 As the global nature of pollution becomes increasingly obvious successful hazardous waste treatment programs must take a total environmental control approach that encompasses all areas of pollution control With its focus on new developments in innovative and alternative environmental technology design criteria effluent standards managerial dec

Handbook of Advanced Industrial and Hazardous Wastes Treatment Lawrence K. Wang,Yung-Tse Hung,Nazih K. Shammam,2009-11-04 This authoritative reference for technical information on industrial and hazardous waste treatment provides broad comprehensive coverage of basic and advanced principles and applications It addresses wastes in a variety of industries including metal finishing food processing milk production foundries and chemical manufacturing Complete with numerous figures tables examples and case histories the text explores new methods of clean production and waste minimization and addresses the treatment of landfills and underground storage tanks **Transactions of the American Society of Civil Engineers** American Society of Civil Engineers,1998 Vols 29 30 include papers of the International Engineering Congress Chicago 1893 v 54 includes papers of the International Engineering Congress St Louis 1904

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