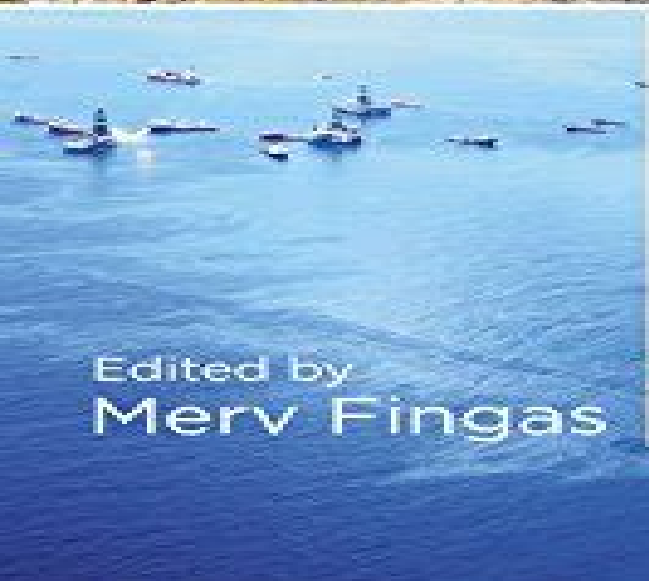
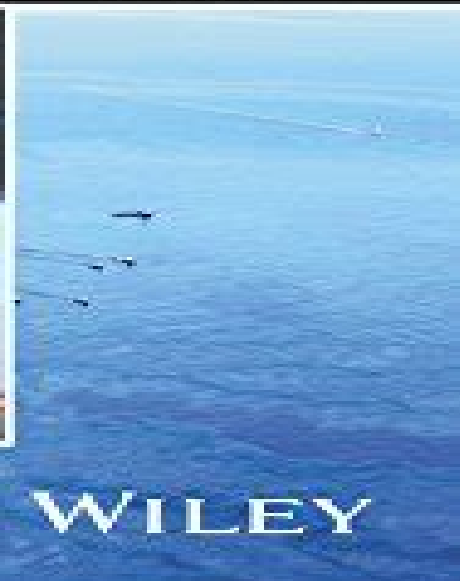


Handbook of

Oil Spill Science and Technology



Edited by
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Handbook Of Oil Spill Science And Technology

Mervin Fingas



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delivers a multi contributed view on the entire chain of oil spill related topics from oil properties and behaviors to remote sensing through the management side of contingency planning and communicating oil spill risk perceptions Completely new case studies are included with special attention to the Deepwater Horizon event covering the impacts of wetlands and sand beaches a mass balance approach and the process for removing petroleum chemicals still trapped near Alabama beaches Other new information on lingering oil left behind from the Exxon Valdez spill the emergency system used in the Prestige incident and coverage on the Heibei Spirit spill in Korea are also included This updated edition combines technology with case studies to identify the current state of knowledge surrounding oil spills that will encourage additional areas of research that are left to uncover in this critical sector of the oil and gas industry Updated with new chapters on risk analysis and communication contingency planning restoration and case studies Supported with technological advances evolved from the Deepwater Horizon BP oil tragedy and events in the Arctic Antarctic Multi contributed from various industry experts to provide an extensive background in technical equipment and worldwide procedures used today **Handbook of Oil Spill**

Science and Technology Merv Fingas, 2015-02-02 Provides a scientific basis for the cleanup and for the assessment of oil spills Enables Non scientific officers to understand the science they use on a daily basis Multi disciplinary approach covering fields as diverse as biology microbiology chemistry physics oceanography and toxicology Covers the science of oil spills from risk analysis to cleanup and through the effects on the environment Includes case studies examining and analyzing spills such as Tasman Spirit oil spill on the Karachi Coast and provides lessons to prevent these in the future *Standard*

Handbook Oil Spill Environmental Forensics Scott Stout, Zhendi Wang, 2016-02-03 *Standard Handbook Oil Spill Environmental Forensics* Fingerprinting and Source Identification Second Edition provides users with the latest information on the tools and methods that have become popular over the past ten years The book presents practitioners with the latest environmental forensics techniques and best practices for quickly identifying the sources of spills how to form an effective response and how to determine liability This second edition represents a complete overhaul of the existing chapters and includes 13 new chapters on methods and applications such as emerging application of PAHi isomers in oil spill forensics development and application of computerized oil spill identification COSI and fingerprinting of oil in biological and passive

sampling devices Contains 13 new chapters on methods and applications including emerging application of PAH isomers in oil drill forensics the development and application of computerized oil spill identification COSI and the fingerprinting of oil in biological and passive sampling devices Presents the latest technology and methods in biodegradation of oil hydrocarbons and its implications for source identification surface trajectory modeling of marine oil spills and identification of hydrocarbons in biological samples for source determination Contains new case studies to illustrate key applications methods and techniques

The Use of Dispersants in Marine Oil Spill Response National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Ocean Studies Board, Committee on the Evaluation of the Use of Chemical Dispersants in Oil Spill Response, 2020-04-24 Whether the result of an oil well blowout vessel collision or grounding leaking pipeline or other incident at sea each marine oil spill will present unique circumstances and challenges The oil type and properties location time of year duration of spill water depth environmental conditions affected biomes potential human community impact and available resources may vary significantly Also each spill may be governed by policy guidelines such as those set forth in the National Response Plan Regional Response Plans or Area Contingency Plans To respond effectively to the specific conditions presented during an oil spill spill responders have used a variety of response options including mechanical recovery of oil using skimmers and booms in situ burning of oil monitored natural attenuation of oil and dispersion of oil by chemical dispersants Because each response method has advantages and disadvantages it is important to understand specific scenarios where a net benefit may be achieved by using a particular tool or combination of tools This report builds on two previous National Research Council reports on dispersant use to provide a current understanding of the state of science and to inform future marine oil spill response operations The response to the 2010 Deepwater Horizon spill included an unprecedented use of dispersants via both surface application and subsea injection The magnitude of the spill stimulated interest and funding for research on oil spill response and dispersant use in particular This study assesses the effects and efficacy of dispersants as an oil spill response tool and evaluates trade offs associated with dispersant use

Springer Handbook of Ocean Engineering Manhar R. Dhanak, Nikolaos I. Xiros, 2016-07-23 This handbook is the definitive reference for the interdisciplinary field that is ocean engineering It integrates the coverage of fundamental and applied material and encompasses a diverse spectrum of systems concepts and operations in the maritime environment as well as providing a comprehensive update on contemporary leading edge ocean technologies Coverage includes an overview on the fundamentals of ocean science ocean signals and instrumentation coastal structures developments in ocean energy technologies and ocean vehicles and automation It aims at practitioners in a range of offshore industries and naval establishments as well as academic researchers and graduate students in ocean coastal offshore and marine engineering and naval architecture The Springer Handbook of Ocean Engineering is organized in five parts Part A Fundamentals Part B Autonomous Ocean Vehicles Subsystems and Control Part C Coastal Design Part D Offshore

Technologies Part E Energy Conversion Advances in Marine Biology Jean-Francois Hamel, 2018-11-21 Advances in Marine Biology Volume 81 the latest release in this acclaimed series published since 1963 updates on many topics that appeal to postgraduates and researchers in marine biology fisheries science ecology zoology and biological oceanography with this release presenting chapters on The Impact of Hydrocarbon Contamination on the Scallop Fishery in Port au Port Bay Newfoundland Pharmaceutical and personal care products in marine and coastal environments facts challenges and opportunities Modeling of the Marathassa Oil Spill in the Vancouver Harbour Characterization of Nitrogen Containing Polycyclic Aromatic Hydrocarbons PAHs in Crude Oil and Refined Petroleum Products and much more Reviews articles on the latest advances in marine biology Authored by leading figures in their respective fields of study Presents materials that are widely used by managers students and academic professionals in the marine sciences **Environmental Impact of Ships** Stephen de Mora, Timothy Fileman, Thomas Vance, 2020-11-05 Shipping is responsible for transporting 90% of the world's trade This book provides a comprehensive review of the impact shipping has on the environment Topics covered include pollutant discharges such as atmospheric emissions oil chemical waste sewage and biocides as well as non pollutant impacts including invasive species wildlife collisions noise physical damage and the environmental effects associated with shipwrecks and shipbreaking The history of relevant international legislation is also covered With chapters written by eminent international authors this book provides a global perspective on the environmental impact of ships making it a useful reference for advanced students and researchers of environmental science as well as practitioners of maritime law and policy and marine business *Medical Management of Wildlife Species* Sonia M. Hernandez, Heather W. Barron, Erica A. Miller, Roberto F. Aguilar, Michael J. Yabsley, 2019-12-05 This book offers an all encompassing resource for reliable information on the medical management of wild birds mammals amphibians and turtles Focusing on the medical information relevant to the wildlife setting it covers triage emergency care and other key considerations in handling diagnosing and treating wild animals The book's population based approach encourages practitioners to understand individual animal care within the broader context Medical Management of Wildlife Species A Guide for Practitioners begins with a brief summary of natural history and introductory chapters address general topics such as pre release conditioning post release monitoring and legal issues associated with handling wildlife species Species specific chapters provide practical information on medical management including the most prevalent concerns for each species and the epidemiology of infectious diseases Provides a complete reference to handling diagnosing and treating wild species Covers the full range of North American wildlife Includes concepts that can be applied to species globally Emphasizes information relevant to the wildlife setting Focuses on individual medicine firmly grounded within population medicine for a broader approach Targeted at wildlife veterinarians veterinary clinicians that will be presented with wildlife veterinary technicians and wildlife rehabilitators Medical Management of Wildlife Species is a must have addition to the bookshelf of wildlife veterinarians and any veterinarian seeing

occasional wild animals as well as wildlife biologists and researchers

Advances in the Characterisation and Remediation of Sites Contaminated with Petroleum Hydrocarbons Jonás García-Rincón, Evangelos Gatsios, Robert J. Lenhard, Estella A. Atekwana, Ravi Naidu, 2023-11-22 This open access book synthesizes important advances in the assessment and management of soil and groundwater systems contaminated with petroleum hydrocarbons especially in the form of light non aqueous phase liquids LNAPLs LNAPL characterization and remediation is challenging due to the multi phase multi component nature of the problem and the various physical chemical and biological processes involved in a dynamic and heterogeneous hydrogeological setting This book focuses on the current state of practice of LNAPL characterization and remediation and seeks to provide information and a framework that would allow some of these complexities to be better addressed by contaminated land practitioners researchers and regulators

Electrokinetic Remediation for Environmental Security and Sustainability Alexandra B. Ribeiro, Majeti Narasimha Vara Prasad, 2021-03-22 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

Handbook of Water Analysis Leo M.L. Nollet, Leen S. P. De Gelder, 2013-07-29 Extensively revised and updated Handbook of Water Analysis Third Edition provides current analytical techniques for detecting various compounds in water samples Maintaining the detailed and accessible style of the previous

editions this third edition demonstrates water sampling and preservation methods by enumerating different ways to measure chemical and radiological characteristics It gives step by step descriptions of separation residue determination and clean up techniques See What s New in the Second Edition Includes five new chapters covering ammonia nitrates nitrites and petroleum hydrocarbons as well as organoleptical and algal analysis methodology Compares older methods still frequently used with recently developed protocols and examines future trends Features a new section regarding organoleptical analysis of water acknowledging that ultimately the consumers of drinking water have the final vote over its quality with respect to odor flavor and color The book covers the physical chemical and other relevant properties of various substances found in water It then describes the sampling cleanup extraction and derivatization procedures and concludes with detection methods Illustrated with procedure flow charts and schematics the text includes numerous tables categorizing methods according to type of component origin of the water sample parameters and procedures used and application range With contributions from international experts the book guides you through the entire scientific investigation starting with a sampling strategy designed to capture the real world situation as closely as possible and ending with an adequate chemometrical and statistical treatment of the acquired data By organizing data into more than 300 tables graphs and charts and supplementing the text with equations and illustrations the editors distill a wealth of knowledge into a single accessible reference

Handbook of Water Analysis, Third Edition Leo M.L. Nollet, Leen S. P. De Gelder, 2013-07-29 Extensively revised and updated Handbook of Water Analysis Third Edition provides current analytical techniques for detecting various compounds in water samples Maintaining the detailed and accessible style of the previous editions this third edition demonstrates water sampling and preservation methods by enumerating different ways to measure chemical and radiological characteristics It gives step by step descriptions of separation residue determination and clean up techniques See What s New in the Second Edition Includes five new chapters covering ammonia nitrates nitrites and petroleum hydrocarbons as well as organoleptical and algal analysis methodology Compares older methods still frequently used with recently developed protocols and examines future trends Features a new section regarding organoleptical analysis of water acknowledging that ultimately the consumers of drinking water have the final vote over its quality with respect to odor flavor and color The book covers the physical chemical and other relevant properties of various substances found in water It then describes the sampling cleanup extraction and derivatization procedures and concludes with detection methods Illustrated with procedure flow charts and schematics the text includes numerous tables categorizing methods according to type of component origin of the water sample parameters and procedures used and application range With contributions from international experts the book guides you through the entire scientific investigation starting with a sampling strategy designed to capture the real world situation as closely as possible and ending with an adequate chemometrical and statistical treatment of the acquired data By organizing data into more than 300 tables graphs and charts and supplementing the text with equations and illustrations the

editors distill a wealth of knowledge into a single accessible reference **Surfactants in Upstream E&P** Theis Solling, Muhammad Shahzad Kamal, Syed M. Shakil Hussain, 2021-06-19 This edited book explores the use of surfactants in upstream exploration and production E P It provides a molecular mechanistic and application based approach to the topic utilising contributions from the leading researchers in the field of organic surfactant chemistry and surfactant chemistry for upstream E P The book covers a wide range of problems in enhanced oil recovery and surfactant chemistry which have a large importance in drilling fracking hydrate inhibition and conformance It begins by discussing the fundamentals of surfactants and their synthesis It then moves on to present their applicability to a variety of situations such as gas injections shale swelling inhibition and acid stimulation This book presents research in an evolving field making it interesting to academics postgraduate students and experts within the field of oil and gas **Synthetic Aperture Radar Imaging Mechanism for Oil Spills** Maged Marghany, 2019-08-21 Synthetic Aperture Radar Imaging Mechanism for Oil Spills delivers the critical tool needed to understand the latest technology in radar imaging of oil spills particularly microwave radar as a main source to understand analysis and applications in the field of marine pollution Filling the gap between modern physics quantum theory and applications of radar imaging of oil spills this reference is packed with technical details associated with the potentiality of synthetic aperture radar SAR and the key methods used to extract the value added information necessary such as location size perimeter and chemical details of the oil slick from SAR measurements Rounding out with practical simulation trajectory movements of oil spills using radar images this book brings an effective new source of technology and applications for today s oil and marine pollution engineers Bridges the gap between theory and application of the techniques involving oil spill monitoring Helps readers understand a new approach to four dimensional automatic detection Provides advanced knowledge on image processing based on intelligent learning machine algorithms and new techniques for detection such as quantum and multi objective algorithms Methods in Chemical Process Safety ,2020-06-26 Methods in Chemical Process Safety Volume Four focuses on the process of learning from experience including elements of process safety management human factors in the chemical process industries and the regulation of chemical process safety including current approaches Users will find this book to be an informative tool and user manual for process safety for a variety of professionals with this new release focusing on Advanced Methods of Risk Assessment and Management Logic Based Methods for Dynamic Risk Assessment Bayesian Methods for Dynamic Risk Assessment Data Driven Methods Rare Event Risk Assessment Risk Management and Multi Criteria and much more Helps acquaint the reader researcher with the fundamentals of process safety Provides the most recent advancements and contributions on the topic from a practical point of view Presents users with the views opinions of experts in each topic Includes a selection of authors who are leading researchers and or practitioners for each given topic *Offshore Process Safety* ,2018-06-18 *Methods in Chemical Process Safety* Volume Two the latest release in a serial that publishes fully commissioned methods papers across

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The Chemistry of Oil and Petroleum Products Merv Fingas, 2022-06-06 This book is devoted to the chemistry of oil and petroleum products and covers the broad range of topics from heavy fuel oils crude oils and diluted bitumen to today s research on asphaltenes Recent methods are summarized and the large new groups of chemicals found in oils are identified as well as described The work points the way for a more complete understanding of the composition of petroleum Highlights include An update on oil fingerprinting New data using Fourier transform mass spectrometry forensic tools for naphthenic acid fraction compounds in oil sand environmental samples Data on vanadium and nickel content changes in the resins of heavy oils characteristics of their structural and group composition and the content of heteroatomic N S O compounds Study of asphaltenes using direct molecular imaging employing atomic force microscopy AFM and scanning tunneling microscopy STM confirming early findings of the dominance of the island molecular structure An update on the Yen Mullins model of asphaltenes in reservoirs giving the requisite solution to the asphaltene particle size thus resolving the gravity term for thermodynamic modeling A modified polymer solution theory the Flory Huggins Zuo FHZ EoS is provided to model asphaltene gradients in reservoirs A suite of oils from the Tarim Basin Qaidam Basin Ordos Basin and Liaohe Basin China is characterized geochemically to clarify factors that can affect the concentrations and distributions of pyrrolic nitrogen compounds PNCs in crude oils An update on biomarkers in crude oils Updates on mass spectrometry techniques applicable to crude oils

Advanced Technologies for Water Quality Treatment and Management Mehraj U. Din Dar, Aamir Ishaq Shah, Shakeel Ahmad Bhat, Syed Rouhullah Ali, 2023-05-04 This new volume explores important recent approaches and advanced techniques for the effective management and treatment of wastewater The book provides a range of diverse techniques for achieving optimum water quality management for restoration of water bodies for the improvement of a circular water economy and for effective water reuse Many of the new methods and technologies included in the book focus on sustainable phytoremediation techniques such as the use of earthworms ecological floating beds and anaerobic biovalorization The book also comprehensively discusses the scope of nanomaterials for wastewater treatment Some of the least explored aspects of water quality improvement such as use of eco roofs the role of remote sensing in water quality management and biosand filters for household wastewater treatment are discussed as well

Wildlife Disease and

Health in Conservation David A. Jessup, Robin W. Radcliffe, 2023-09-15 This title explores the origins impacts and responses to diseases that are particularly damaging persistent and or are currently threatening wildlife conservation

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