

Third Edition

# OIL SPILL SCIENCE *and* TECHNOLOGY

Edited by  
Marvin Fingas



# Oil Spill Science And Technology

**Merv Fingas**



## **Oil Spill Science And Technology:**

*Oil Spill Science and Technology* Merv Fingas, 2024-12-12 *Oil Spill Science and Technology* Third Edition 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 This new edition compiles information on oil spills from a scientific point of view and with new case studies and examples This book aims to serve both as an authoritative reference for individuals new to the field who need to understand the depth of science going into the fields of oil spill recovery assessment and analysis as well as those who have years of experience Written by over 24 experts in the field 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 energy industry

*Oil Spill Science and Technology* Mervin Fingas, 2016-11-23 *Oil Spill Science and Technology* Second Edition 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

**Oil Spill Science and Technology** Mervin Fingas, 2010-12-03 The National Academy of Sciences estimate that 1 7 to 8 8 million tons of oil are released into world s water every year of which more than 70% is directly related to human activities The effects of these spills are all too apparent dead wildlife oil covered marshlands and contaminated water chief among them This reference will provide scientists engineers and practitioners with the latest methods use for identify and eliminating spills before they occur and develop the best available techniques equipment and materials for dealing with oil spills in every environment Topics covered include spill dynamics and behaviour spill treating agents and cleanup techniques such as in situ burning mechanical containment or recovery chemical and biological methods and physical methods are used to clean up shorelines Also included are the fate and effects of oil spills and means to assess damage Covers spill dynamics and behaviour Definitive guide to spill treating agents Complete coverage of cleanup techniques Includes fate and effects of oil spills and means to assess damage

Handbook of Oil Spill Science and Technology Merv Fingas, 2014-12-29 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

**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

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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

*The Basics of Oil Spill Cleanup, Third Edition* Merv Fingas, 2012-12-05 Reflecting the rapid progress in cleanup technology since the previous edition this revised and expanded third edition of The Basics of Oil Spill Cleanup covers current cleanup techniques how oil spills are measured and detected and the properties of

the oil and its long term fate in the environment It also deals with why how often and where oil spills occur as well as the chemical composition and physical properties of various oil types The chapters describe surface and remote sensing technologies used to detect and track oil slicks and methods to contain oil on water booms and ancillary equipment and recover oil from the water surface skimmers sorbents and manual recovery The author discusses the use of pumps in situ burning and chemical agents such as dispersants for oil removal He also addresses oil contaminated shorelines and the effects and behavior of oil on different ecosystems and the various organisms within them Written for the general public as well as those directly involved with oil spill cleanup this edition provides broad up to date knowledge of the cleanup and control of spills *Oil & Gas Science and Technology* ,2003 **Oil Spills First Principles** B. Ornitz†,M.

Champ,2002-06-18 Marine oil spills are no longer considered unavoidable accidents resulting from adverse environmental conditions or functions of catastrophic events More than 80% of all spills are the result of human error The focus of the current legal regulatory and convention framework affecting the transportation of oil by ship reflects a recent change in public attitude in which there is an insistence upon protection of the world s marine environments particularly coastal ecosystems The outcome of such global attention is the creation of significant legal and political motivators for a cultural shift by the oil shipping industry from an evasion culture to a safety culture The new safety culture connotes continuous improvement in ship operations and a willingness to adopt the evolving concepts of communication at all levels better trained and qualified personnel on board ship emphasis of safety from top down and proactive institution of safety management systems Mere compliance with international and national laws is no longer sufficient for future sustainable shipping These changes and advancements in understanding the science and engineering of oil spills are the focus of this book on Oil Spills First Principles They are Prevention based upon adoption of the safety culture and Best Response utilizing scientific technical and environmental data and information Over the past 30 years billions of US dollars have been spent in R D planning response and clean up of oil spills All of these efforts have focused on achieving Best Response The concept of time periods of Technology Windows of Opportunity for a given response and clean up technology has developed from the leadership and wisdom of researchers and responders from many nations using modeling of the weathering of spilled oil and technology effectiveness The Windows of Opportunity strategy provides a scientific basis for policy and decision making in oil spill planning response and training A global paradigm shift is needed to more effectively utilize and expedite the application of lessons learned in both prevention and clean up Recognition of economic political and legal benefits accruing from environmental protection is good for business and critical for sustainable shipping High Performance Elastomer Materials Dariusz M. Bielinski,Ryszard Kozlowski,Gennady E. Zaikov,2014-10-23 This book presents selected papers on various aspects of rubber engineering technology and exploitation The contributions range from new methods of the modification of filler surface and crosslinks structure of rubber vulcanizates through modern functional elastomer composites

to aspects of their thermal stability flammability and ozone degradation

**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 Oil-Water Separation** Papita Das, Suvendu Manna, Jitendra Kumar Pandey, 2022-02-16 *Advances in Oil Water Separation: A Complete Guide for Physical, Chemical and Biochemical Processes* discusses a broad variety of chemical, physical and biochemical processes including skimming, membrane separation, adsorption, on-site chemical reactions, burning and usage of suitable microbial strains for on-site degradation of oil. It critically reviews all current developments in oil-water separation processes and technologies, identifies gaps and illuminates the scope for future research and development in the field. This book provides researchers, engineers and environmental professionals working in oil recovery and storage with solutions for disposal of waste oil and separation of oil from water in a sustainable, environmentally friendly way. As the book provides a complete state-of-the-art overview on oil-water separation technologies, it will also ease literature searches on oil-water separation technologies. Provides a comprehensive overview of state-of-the-art developments in oil-water separation methods. Discusses the pros and cons of established processes. Guides the reader towards the selection of the right technique/process for each oil-water separation problem. Presents current developments on adsorbent-based oil-water separation.

**In-Situ Burning for Oil Spill Countermeasures** Merv Fingas, 2018-06-13 *Shelving Guide: Environmental Engineering*. In situ burning is recognized as a viable alternative for cleaning up oil spills on land and water. It can rapidly reduce the volume of spilled oil and eliminate the need to collect, store, transport and dispose of recovered oil and can also shorten the response time to a spill, thus reducing the chances that the spill will spread on the water surface or further into land. This book will serve as a comprehensive reference for all aspects of in situ burning of oil spills and include the scientific aspects of the burning process and the related effects as well as practical information about the procedures to be followed and equipment required for carrying out an in situ burn. Features: Serves as a complete source of information on in situ burning as well as practical guide on how to implement the procedures. Explains procedures for burning in different situations including on water, land and ice. Provides information on worker health and safety precautions during burning. Covers several different types of

emissions their environmental fate and how to monitor them Includes numerous illustrative case studies      **Responding to Oil Spills in the U.S. Arctic Marine Environment** National Research Council,Transportation Research Board,Marine Board,Division on Earth and Life Studies,Polar Research Board,Ocean Studies Board,Committee on Responding to Oil Spills in the U.S. Arctic Marine Environment,2014-08-01 U S Arctic waters north of the Bering Strait and west of the Canadian border encompass a vast area that is usually ice covered for much of the year but is increasingly experiencing longer periods and larger areas of open water due to climate change Sparsely inhabited with a wide variety of ecosystems found nowhere else this region is vulnerable to damage from human activities As oil and gas shipping and tourism activities increase the possibilities of an oil spill also increase How can we best prepare to respond to such an event in this challenging environment Responding to Oil Spills in the U S Arctic Marine Environment reviews the current state of the science regarding oil spill response and environmental assessment in the Arctic region north of the Bering Strait with emphasis on the potential impacts in U S waters This report describes the unique ecosystems and environment of the Arctic and makes recommendations to provide an effective response effort in these challenging conditions According to Responding to Oil Spills in the U S Arctic Marine Environment a full range of proven oil spill response technologies is needed in order to minimize the impacts on people and sensitive ecosystems This report identifies key oil spill research priorities critical data and monitoring needs mitigation strategies and important operational and logistical issues The Arctic acts as an integrating regulating and mediating component of the physical atmospheric and cryospheric systems that govern life on Earth Not only does the Arctic serve as regulator of many of the Earth s large scale systems and processes but it is also an area where choices made have substantial impact on life and choices everywhere on planet Earth This report s recommendations will assist environmentalists industry state and local policymakers and anyone interested in the future of this special region to preserve and protect it from damaging oil spills      *Marine Hydrocarbon Spill Assessments* Oleg Makarynskyy,2021-08-19 *Marine Hydrocarbon Spill Assessments From Risk of Spill through to Probabilities Estimates* describes the methods used for estimating hydrocarbon spill risks and the potential consequences Throughout the book mathematical methodologies and algorithms are included to aid the reader in the solving of applied tasks presented *Marine Hydrocarbon Spill Assessments From Risk of Spill through to Probabilities Estimates* provides a fundamental understanding of the oil properties and processes which determine the persistence and impacts of oils in the marine environment It informs the reader of the current research in hydrocarbon spill assessments starting from an assessment of a risk of a spill and moving on to modelling approaches to impact assessments laboratory toxicity assessments field impact assessments and response options and prevention and contingency planning Identifies efficient solutions to protect coastal regions from the marine pollution of hydrocarbon spills Includes case studies examining and analyzing spills providing lessons to prevent these in the future Covers the science of oil spills from risk analysis to cleanup and the effects on the environment      Information Engineering

of Emergency Treatment for Marine Oil Spill Accidents Lin Mu,Lizhe Wang,Jining Yan,2019-09-10 Oil spills are a serious marine disaster Oil spill accidents usually occur in shipping ports and offshore oil development Although most are emergent events once an oil spill occurs it will cause great harm to the marine ecological environment and bring direct harm to the economic development along the affected coast as well as to human health and public safety Information Engineering of Emergency Treatment for Marine Oil Spill Accidents analyzes the causes of these accidents introduces China s emergency response system discusses technologies such as remote sensing and monitoring of oil spill on the sea surface and oil fingerprint identification studies model prediction of marine oil spill behavior and fate and emergency treatment technologies for oil spills on the sea surface and emphatically introduces the emergency prediction and warning system for oil spills in the Bohai Sea as well as oil spill sensitive resources and emergency resource management systems Features The status quo and causes of marine oil spill pollution as well as hazards of oil spill on the sea The emergency response system for marine oil spills Model based prediction methods of marine oil spills A series of used and developing emergency treatments of oil spill on the sea This book serves as a reference for scientific investigators who want to understand the key technologies for emergency response to marine oil spill accidents including the current level and future development trend of China in this field

**Oil and Gas Pipelines** R. Winston Revie,2025-03-18 Discover the integrity safety and security of new and aging oil and gas pipelines in this comprehensive reference guide Oil and gas pipelines are typically used to transport oil and gas but can be adapted to transport ethanol carbon dioxide hydrogen and more A pipeline network is an efficient method for transporting any number of energy providing products but safety and integrity are critical aspects of pipeline integrity management The demand for pipeline safety and security is increasing in the face of more stringent standards and deepening environmental concerns including those related to climate change Oil and Gas Pipelines Integrity Safety and Security Handbook provides a comprehensive introduction to the integrity of new and aging pipelines and their management repair and maintenance All major varieties of pipeline are included along with all pertinent public safety and environmental protections Now fully updated to reflect the latest research and technological developments the book is a critical contribution to the reliability and safety of the global energy grid and ongoing efforts at carbon capture utilization and storage Readers of the second edition of Oil and Gas Pipelines will also find 26 new chapters including a new section on the digitalization of pipelines Detailed discussion of topics including management of geohazards mechanical damage internal corrosion monitoring and many more Extensive case histories with practical accompanying solutions Oil and Gas Pipelines is ideal for engineers scientists technologists environmentalists students and others who need to understand the basics of pipeline technology as it pertains to energy deliverability environmental protection public safety and the important role of pipelines and pipeline security to ensure energy security during the energy transition

**Oil Spill Environmental Forensics Case Studies** Scott Stout,Zhendi Wang,2017-10-22 Oil Spill Environmental Forensics Case Studies includes 34 chapters that serve



to present various aspects of environmental forensics in relation to real world oil spill case studies from around the globe Authors representing academic government and private researcher groups from 14 countries bring a diverse and global perspective to this volume Oil Spill Environmental Forensics Case Studies addresses releases of natural gas methane automotive gasoline and other petroleum fuels lubricants vegetable oils paraffin waxes bitumen manufactured gas plant residues urban runoff and of course crude oil the latter ranging from light Bakken shale oil to heavy Canadian oil sands oil New challenges surrounding forensic investigations of stray gas in the shallow subsurface volatiles in air dissolved chemicals in water including passive samplers and biological tissues associated with oil spills are included as are the effects and long term oil weathering long term monitoring in urbanized and non urbanized environments fate and transport forensic historical research new analytical and chemical data processing and interpretation methods Presents cases in each chapter on the application of specific oil spill environmental forensic techniques Features chapters written by international experts from both academia and industry Includes relevant concepts and theories elucidated for each theme

**Oil in the Sea III**

National Research Council,Transportation Research Board,Division on Earth and Life Studies,Marine Board,Ocean Studies Board,Committee on Oil in the Sea: Inputs, Fates, and Effects,2003-03-14 Since the early 1970s experts have recognized that petroleum pollutants were being discharged in marine waters worldwide from oil spills vessel operations and land based sources Public attention to oil spills has forced improvements Still a considerable amount of oil is discharged yearly into sensitive coastal environments Oil in the Sea provides the best available estimate of oil pollutant discharge into marine waters including an evaluation of the methods for assessing petroleum load and a discussion about the concerns these loads represent Featuring close up looks at the Exxon Valdez spill and other notable events the book identifies important research questions and makes recommendations for better analysis of and more effective measures against pollutant discharge The book discusses Input where the discharges come from including the role of two stroke engines used on recreational craft Behavior or fate how oil is affected by processes such as evaporation as it moves through the marine environment Effects what we know about the effects of petroleum hydrocarbons on marine organisms and ecosystems Providing a needed update on a problem of international importance this book will be of interest to energy policy makers industry officials and managers engineers and researchers and advocates for the marine environment

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## **Table of Contents Oil Spill Science And Technology**

1. Understanding the eBook Oil Spill Science And Technology
  - The Rise of Digital Reading Oil Spill Science And Technology
  - Advantages of eBooks Over Traditional Books
2. Identifying Oil Spill Science And Technology
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Oil Spill Science And Technology
  - User-Friendly Interface
4. Exploring eBook Recommendations from Oil Spill Science And Technology
  - Personalized Recommendations
  - Oil Spill Science And Technology User Reviews and Ratings
  - Oil Spill Science And Technology and Bestseller Lists
5. Accessing Oil Spill Science And Technology Free and Paid eBooks
  - Oil Spill Science And Technology Public Domain eBooks
  - Oil Spill Science And Technology eBook Subscription Services

- Oil Spill Science And Technology Budget-Friendly Options
- 6. Navigating Oil Spill Science And Technology eBook Formats
  - ePub, PDF, MOBI, and More
  - Oil Spill Science And Technology Compatibility with Devices
  - Oil Spill Science And Technology Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Oil Spill Science And Technology
  - Highlighting and Note-Taking Oil Spill Science And Technology
  - Interactive Elements Oil Spill Science And Technology
- 8. Staying Engaged with Oil Spill Science And Technology
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Oil Spill Science And Technology
- 9. Balancing eBooks and Physical Books Oil Spill Science And Technology
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Oil Spill Science And Technology
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Oil Spill Science And Technology
  - Setting Reading Goals Oil Spill Science And Technology
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Oil Spill Science And Technology
  - Fact-Checking eBook Content of Oil Spill Science And Technology
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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