



Making environmental data meaningful



Multiple Lines of Evidence of PAH Fingerprinting and Source Apportionment of Crude Oil Spills

Court D. Sandau and Phil Richards



Crude Oil Fingerprinting Analysis

Michael Hoelscher



Crude Oil Fingerprinting Analysis:

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 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

California. Court of Appeal (1st Appellate District). Records and Briefs California (State)., Number of Exhibits 2 *Contaminated Soil, Sediment & Water*, 2001 **Dispersed Oil Fingerprinting in Marine Environments** Xing Song, 2020 The occurrence of offshore oil spills can induce various negative effects on marine environments Oil fingerprinting is a key technology to identify the sources of crude oil and associated refined products spilled into the environments Spill oil fingerprinting can be achieved by investigating the diagnostic relationships among specific hydrocarbons known as biomarkers Biomarkers in oils can be uniquely distributed to pinpoint the oil geographic source and weathering status Dispersants are widely used marine oil spill treatment agents containing surfactants and solvents It can reduce interfacial tension between oil and seawater by enhancing the generation of small and stable oil surfactant micelles i.e. oil in water emulsion By using dispersants the spilled oil in a water emulsion bridged by surfactants called chemically dispersed oil CDO can dwell in seawater for a longer period under proper conditions CDO fingerprinting is

essential for assessment of its environmental impact selection of further response countermeasures and for a better understanding of the fate and behaviors of CDO in marine environments However dispersant application could change the physicochemical properties of spilled oil which is challenging for the applicability of current environmental forensics for CDO fingerprint and limits the research on the topic reported To address this challenge this thesis carried out investigations on dispersed oil fingerprinting in marine environments in the following aspects 1 investigation of the applicability of existing typical biomarkers for fingerprinting of short term weathered CDO 2 identification of relatively long term weathered CDO through screening eight types of aliphatic and aromatic biomarkers 3 differentiation of CDO from non dispersed oil using principal component analysis 4 assessment of the impacts of biodegradation of weathered dispersed oil treated by a shrimp waste based new dispersant on fingerprinting of CDO and 5 comprehensive evaluation of environmental factors on CDO fingerprinting The research outputs lead to a group of identified biomarkers for effective dispersed oil identification and oil weathering assessment a better understanding of the characteristics of spilled oil treated by dispersants and a more robust means for tracking fate and behaviors of CDO in marine environments

Transformations of Middle Eastern Natural Environments ,1998 **Algae Abstracts: A Guide to the Literature: 1972 to 1974** ,1973 *Proceedings of the ...*

Arctic and Marine Oilspill Program Technical Seminar ,1994 *Proceedings* ,1997 *Petroleum Abstracts* ,1995-08

Encyclopedia of Environmental Analysis and Remediation ,1998 This encyclopedia is composed of an eight volume set that provides an overview of the field of environmental analysis The contents are divided into major content areas including air pollution control environmental law and environmental sampling The volumes are organized alphabetically with each article signed by the author s The individual articles begin with a summary of the topic heading and then divide the text into subtopics indicated by boldface headings The articles are written clearly however the authors assume a basic knowledge of chemistry and math on the part of the reader For example the acid mine drainage article refers to the Arrhenius equation but does not clarify this statement in the text Each article contains graphs as well as pictures to illustrate points made in the text The articles are long and provide a detailed explanation of each topic The authors also provide a bibliography at the end of each article Special features of the encyclopedia include a list of contributors a table of conversion factors and a list of abbreviations and acronyms The preface outlines the general contents of the encyclopedia The preface also includes sections that suggest the target audience and recommended usages for the set The final volume of the set contains an alphabetic index to the topics contained in the volumes

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