

Contents

1	Variability of the Deepwater Horizon Surface Oil Spill Extent and Its Relationship to Varying Ocean Currents and Extreme Weather Conditions	1
	Gustavo J. Goni, Joaquin A. Trinanés, Amy MacFadyen, Davida Streett, María Josefina Olascoaga, Marc L. Imhoff, Frank Muller-Karger and Mitchell A. Roffer	
2	A Strategy for Bioremediation of Marine Shorelines by Using Several Nutrient Release Points.	23
	David Parra-Guevara and Yuri N. Skiba	
3	Prediction of the Formation of Water-in-Oil Emulsions	57
	Merv Fingas	
4	Equilibrium Theory of Bidensity Particle-Laden Flows on an Incline	85
	Sungyon Lee, Jeffrey Wong and Andrea L. Bertozzi	
5	Operational Oil Spill Modelling: From Science to Engineering Applications in the Presence of Uncertainty	99
	Ben R. Hodges, Alejandro Orfila, Juan M. Sayol and Xianlong Hou	
6	Application of a Numerical Statistical Model to Estimate Potential Oil Spill Risk	127
	Weijun Guo and Tiaojian Xu	
7	Structural Analysis of Oil-Spill Booms.	141
	Frédéric Muttin	



<http://www.springer.com/978-3-319-16458-8>

Mathematical Modelling and Numerical Simulation of Oil
Pollution Problems

Ehrhardt, M. (Ed.)

2015, X, 166 p. 58 illus., 44 illus. in color., Softcover

ISBN: 978-3-319-16458-8