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Nota di contenuto	Title Page; Copyright Page; Contents; Contributors; Author Biographies; Preface; Part I Risk Analysis; Chapter 1 Risk Analysis and Prevention; 1.1 Introduction; 1.2 Executive Summary; 1.3 Oil Spill Risk Analysis; 1.3.1 Defining "Oil Spill Risk"; 1.3.2 Factors That Determine the Probability of Spill Occurrence; 1.3.3 Probability Distributions of Spill Volume; 1.3.4 Determining the Probable Locations and Timing of Spills; 1.3.5 Factors That Determine the Consequences/Impacts of a Spill; 1.3.6 Spill Impacts: The Effects of Spill Location Type; 1.3.7 Measuring Oil Spill Impacts 1.3.8 Interpreting Risk for Policy-Making 1.4 Overview of Oil Spill Prevention; 1.4.1 Basic Strategies for Spill Prevention; 1.4.2 Implementation of Spill Prevention Measures; 1.4.3 Effectiveness of Spill Prevention; 1.4.4 Spill Fines and Penalties as Deterrents; References; Part II Oil Properties; Chapter 2 Oil Physical Properties: Measurement and Correlation; 2.1 Introduction; 2.2 Bulk Properties of Crude Oil and Fuel Products; 2.2.1 Density and API Gravity; 2.2.2 Dynamic Viscosity; 2.2.3 Surface and Interfacial Tensions; 2.2.4 Flash Point; 2.2.5 Pour Point; 2.2.6 Sulfur Content 2.2.7 Water Content 2.2.8 Evaluation of the Stability of Emulsions

Formed from Brine and Oils and Oil Products; 2.2.9 Evaluation of the Effectiveness of Dispersants on an Oil; 2.2.10 Adhesion; 2.3 Hydrocarbon Groups; 2.3.1 Saturates; 2.3.2 Aromatics; 2.3.3 Resins; 2.3.4 Asphaltenes; 2.4 Quality Assurance and Control; 2.5 Effects of Evaporative Weathering on Oil Bulk Properties; 2.5.1 Weathering; 2.5.2 Preparing Evaporated (Weathered) Samples of Oils; 2.5.3 Quantifying Equation(s) for Predicting Evaporation; References; Part III Oil Composition and Properties

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#### Sommario/riassunto

Provides a scientific basis for the cleanup and for the assessment of oil spillsEnables Non-scientific officers to understand the science they use on a daily basisMulti-disciplinary approach covering fields as diverse as biology, microbiology, chemistry, physics, oceanography and toxicologyCovers the science of oil spills from risk analysis to cleanup and through the effects on the environmentIncludes 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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