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Nota di contenuto	 Oil Spill Remediation: Colloid Chemistry-Based Principles and Solutions; Copyright; Contents; Foreword; Preface; Contributors; 1 Science-Based Decision Making on the Use of Dispersants in the Deepwater Horizon Oil Spill; 1.1 Introduction; 1.2 Brief History and Evolution of Dispersants for Oil; 1.2.1 Spill Mitigation; 1.3 Dispersant Efficacy and Dispersion Effectiveness; 1.4 Toxicity of Dispersants; 1.4.1 Laboratory Testing; 1.4.2 In-Field Monitoring; 1.5 Monitoring of Dispersants on the Surface and in the Deep Sea; 1.5.1 Monitoring in Surface Waters; 1.5.2 Monitoring in the Deep Sea 1.6 Fate and Transport of Dispersants and Dispersed Oil1.7 Future Oil Spill Research as a Result of Lessons Learned; 1.8 Summary; References; 2 Understanding and Properly Interpreting the 2010 Deepwater Horizon Blowout; 2.1 Introduction; 2.2 Background; 2.2.1 Significant Past Marine Oil Spills; 2.2.2 1967 Torrey Canyon Spill; 2.2.3 1969 Santa Barbara Blowout; 2.3 Brief Summary of Gulf of Mexico Marine Ecosystems; 2.4 Brief Deepwater Horizon Oil Spill Overview 2.4.1 Before the Deepwater Horizon: An Overview of OffshorePetroleum

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Sommario/riassunto This book provides a comprehensive overview of oil spill remediation from the perspectives of policy makers, scientists, and engineers, generally focusing on colloid chemistry phenomena and solutions involved in oil spills and their cleanup. First book to address oil spill remediation from the perspective of physicochemical and colloidal science Discusses current and emerging detergents used in clean-ups Includes chapters from leading scientists, researchers, engineers, and policy makers Presents new insights into the possible impact of oil spills on ecosystems as w	