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| Nota di contenuto | Table of Contents; Preface and Introduction; Structure and Emphasis; Quality Control; Acknowledgments; Notes and Commentary; Part I: New Science and New Paradigms; CHAPTER 1: Lessons Learned: A Case Approach to Environmental Problems; MTBE and Cross-Media Transfer; The Incremental Effect; Failure and Blame; A Lesson from the Medical Community; Professional Accountability; Villain and Victim Status; Other Lessons: Risk and Reliability; Environmental Ethics and a New Environmental Ethic; Sensitivity; Notes and Commentary; CHAPTER 2: Pollution Revisited; DDT versus Eco-Colonialism: Trading Risks ReliabilityCharacterizing Pollutants; Partitioning to Solids-Sorption; Partitioning to the Liquid Phase-Dissolution; Partitioning to the Gas Phase-Volatilization; Solubility as a Physical and Chemical Phenomenon; Partitioning to Organic Tissue; Emissions, Effluents, Releases, Leaks, and Spills; Notes and Commentary; Part II: Key Environmental Events by Media; Fluids in the Environment: A Brief Introduction; Three Major Media; CHAPTER 3: Something in the Air; London Air Pollution and the Industrial Revolution; Contaminants of Concern: Sulfur and Nitrogen Compounds Notorious Air Pollution Cases of the Twentieth CenturyThe Meuse |

Valley Acid Fog; Contaminants of Concern: Particulate Matter; Donora, Pennsylvania; Poza Rica, Mexico; Contaminant of Concern: Hydrogen Sulfide; London, England; New York City; Toxic Clouds; The Bhopal Tragedy; Preparing for Intentional Toxic Clouds; Airshed in the Developing World: Mexico City; Lessons Learned; Contaminant of Concern: Photochemical Oxidant Smog; Notes and Commentary; CHAPTER 4: Watershed Events; The Death of Lake Erie: The Price of Progress?; Eutrophication; Cuyahoga River Fire
Lesson Learned: The Need for Regional Environmental Planning
Spills: Immediate Problem with Long-Term Consequences; Solubility; Torrey Canyon Tanker Spill; Santa Barbara Oil Spill; Exxon Valdez Spill: Disaster Experienced and Disaster Avoided; Prestige Oil Spill; Lessons Learned: Two-Edged Swords; Pfiesteria piscicida: Nature Out of Sync; Lesson Being Learned; Notes and Commentary; CHAPTER 5: Landmark Cases; Love Canal, New York; Hazardous Waste Cleanup; A Fire That Sparked Controversy: Chester, Pennsylvania; Dioxin Contamination of Times Beach; A Terrifying Discovery: Valley of the Drums
Stringfellow Acid Pits
The March Continues; Lessons Learned; Failure to Grasp the Land Ethic; Disasters: Real and Perceived; "Cancer Alley" and Vinyl Chloride; Bioaccumulation and Its Influence on Risk; The Kepone Tragedy; Biological Response; Organic versus Inorganic Toxicants; Pesticides and Sterility; Jersey City Chromium; Radioisotopes; Radiation Poisoning in Goiania, Brazil; Factors of Safety; Small Numbers and Rare Events; Exposure Estimation; Risk-Based Cleanup Standards; The Drake Chemical Company Superfund Site: A Risk-Based Case; Risk Assessment: The First Step; Notes and Commentary
CHAPTER 6: By Way of Introduction

Sommario/riassunto

Engineers and scientists have made great progress in advancing the understanding of the principles underlying environmental quality and public health. However, all too often, society and the scientific community do not realize the connections between environmental occurrences. In their haste to remedy a situation, they overlook lessons that could be learned to prevent future disasters. Paying attention to the past instructs us about the future. Paradigms Lost combines the historical case perspective with credible and sound scientific explanations of key environmental disaster
