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Nota di contenuto	1. Environmental Toxicology, Introduction -- 2. Airborne Toxic Chemicals -- 3. Bioaccumulation/Biomagnifications in Food Chains -- 4. Biomarkers and Metabolomics, Evidence of Stress -- 5. Bioremediation and Mitigation -- 6. Biosensors and Bioassays for Ecological Risk Monitoring and Assessment -- 7. CERCLA, Sustainability and Public and Environmental Health -- 8. Ecological and Health Risks at Low Doses -- 9. Ecological Risk Assessment and Animal Models -- 10. Environmental Toxicology: Carcinogenesis -- 11. Environmental Toxicology: Children at Risk -- 12. Environmental Toxicology: Oxidative Stress -- 13. Harmful Algal Blooms -- 14. Microbial Risk Assessment of Pathogens in Water -- 15. Pathogen and Nutrient

Transfer Through and Across Agricultural Soils -- 16. Recreational Water Risk: Pathogens and Fecal Indicators -- 17. Science, Policy, and Risk Management: Case of Seafood Safety -- 18. Sentinel Species in Oceans and Human Health -- 19. Solar Radiation and Human Health -- 20. Toxic Chemical Risks -- 21. Ultraviolet Radiation: Distribution and Variability -- 22. UV Effects on Living Organisms -- 23. Xenobiotic Protection/Resistance Mechanisms in Organisms -- Index.

Sommario/riassunto

Environmental Toxicology provides a detailed, comprehensive introduction to this key area of sustainability and public health research. The broad coverage includes sections on ecological risk assessment, monitoring, mechanisms, fate and transport, prevention, and correctives, as well as treatment of the health effects of solar radiation and toxicology in the ocean. The 23 state-of-the-art chapters provide a multi-disciplinary perspective on this vital area, which encompasses environmental science, biology, chemistry, and public health. Features authoritative, peer-reviewed entries from the Encyclopedia of Sustainability Science and Technology Covers a wide range of environmental toxicology research, from recreational water risk to biomarkers and metabolomics Written for an audience of undergraduate and graduate students, researchers, industry professionals, and policymakers.