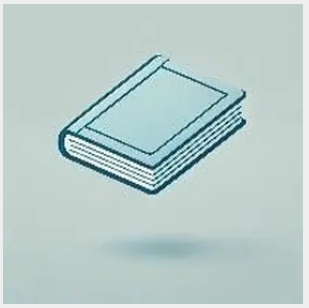
Narayanasamy / Vasantharaj

PFAS Contamination

Global Prevalence, Toxicological and Ecotoxicological Impacts, and Mitigation Strategies



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PFAS Contamination: Global Prevalence, Toxicological and Ecotoxicological Impacts, and Mitigation Strategies offers a comprehensive overview of per- and polyfluoroalkyl substances (PFAS), highlighting their global environmental prevalence, toxicological effects and health risks, and state-of-the-art remediation approaches. The book taps into the increasing recognition of PFAS as “forever chemicals” and explores the widespread contamination of these compounds in water, soil, and air along with their toxicological effects on human health and the ecosystem. It highlights advancements in detection methods as well as physicochemical, biological, and emerging remediation technologies, including plasma-based technologies, bioremediation, and advanced nanotechnology-based methods, such as plasma technology, bioremediation, and adsorption methods. Case studies illustrate successful applications, and the book examines policy frameworks, regulatory measures, and the public health impact of PFAS. This resource serves as a vital source of information for environmental toxicologists, environmental scientists, environmental consultants, engineers, and regulators studying PFAS prevalence, toxicity mechanisms, remediation, and practical strategies for mitigating PFAS contamination and fostering a deeper understanding of the global efforts to address this critical issue.

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