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Advances in Water Security

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Fares, Ali, Singh, Sushant K. (Eds.), Prairie View A&M University, Prairie View, TX, USA

Arsenic Water Resources Contamination

Challenges and Solutions

- Addresses the challenges posed by global mass poisoning from arsenic water contamination
- Synthesizes research in environmental sciences, management, sustainability, public health and policy
- Presents case studies in Pakistan and India to discuss prediction models and policy recommendations for mitigating arsenic contamination

This edited volume brings together a diverse group of environmental science, sustainability and health researchers to address the challenges posed by global mass poisoning caused by arsenic water contamination. The book sheds light on this global environmental issue, and proposes solutions to aquatic contamination through a multi-disciplinary lens and case studies from Bangladesh and India. The book may serve as a reference to environment and sustainability researchers, students and policy makers. Part one of the book describes the issue of arsenic contamination in ground water and river basins, including its source and distribution in specific locations in India. Part two explains the routes of exposure to environmental arsenic, its transport in aquatic ecosystems, and the health risks linked to arsenic exposure in food and the environment. Part three addresses sustainable arsenic contamination mitigation strategies and policies, the socioeconomic, demographic, cultural and psychological aspects of arsenic contamination, and the potential applications of GIS and remote sensing in providing solutions. Part four concludes by discussing the role of local and regional institutions in water resources management for a variety of issues including but not limited to arsenic contamination, and presents a case study in the Indus river basin in Pakistan to propose future contamination mitigation strategies.

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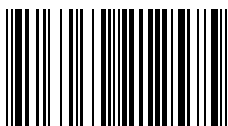
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