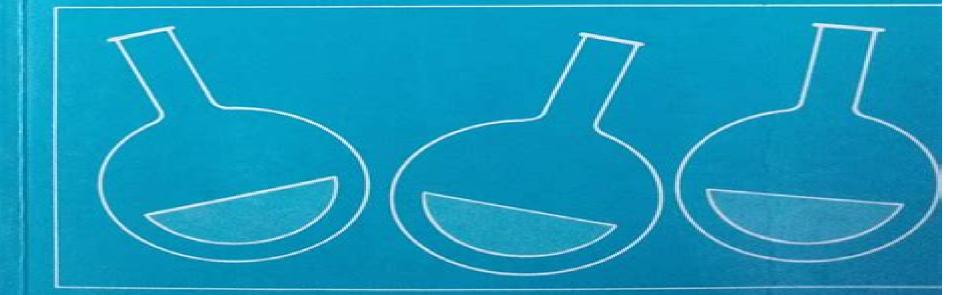
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mitigation of current climate change It covers multidisciplinary research topics such as carbon mineralization solid waste management and convergence technologies for sustainable solutions for climate change **Bio-organic Amendments for** Heavy Metal Remediation Allah Ditta, Sajid Mehmood, Muhammad Imtiaz, Mike S Tu, 2024-07-23 Bio organic Amendments for Heavy Metal Remediation Water soil and plant focuses on these core continuum media to explore remediation options using microbial organic and combined approached A volume in the Plant Biology Sustainability and Climate Change series this book offers a comprehensive view of techniques and approaches for addressing contamination by heavy metals As anthropogenic activities increasingly negatively impact natural resources there has been significant disturbance of water soil and plant continuum due to the accumulation of heavy metals. The bioaccumulation of heavy metals in the food chain could pose life threatening effects on plants as well as humans and there is need to find effective and sustainable remediation options The application of bio organic amendments could serve as a sustainable solution to this problem Employing microbial organic and combined approaches to reduce the accumulation of heavy metals in the food chain ultimately would lead to the production of safe food for humans This book provides a comprehensive view of the challenge with a focus on the bioremediation of heavy metals contamination using ecotechnological approaches to protecting the soil water and plant continuum Highlights remediation techniques approaches for heavy metals under water soil and plant continuums Presents case studies for real world insights as well as current practices Includes regulatory aspects for ensuring safe implementation

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come to light in the past few decades due to its increasing contamination in several parts of world with the worst situation being in Bangladesh and West Bengal in India This edited volume brings together 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 covers sources of arsenic contamination and its impact on human health and on prospective remediation both by bioremediation and phytoremediation Applications of advance techniques such as genetic engineering and nanotechnology are also discussed to resolve the issue of arsenic contamination in ground water and river basins The book sheds light on this global environmental issue and proposes solutions to remove 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 It delivers an outline to graduate undergraduate students and researchers as well as academicians who are working on arsenic toxicity with respect to remediation and health issues

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