Título: Bioavailability, Toxicity And Risk Ralationships In Ecosystems

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This book covers fundamental principles relating to bioavailability, environmental and human health risk assessment, bioavailability as affected by chemical speciation, potential role of bioavailability in risk assessment, microbial parameters as indicators of bioavailability and case studies demonstrating how manipulation of bioavailability could mitigate ecotoxicological effects of metals.

This book is intended for post graduate students, remediators and risk assessment experts to understand the application of various conventional and innovative tools for assessing bioavailability and risks posed by contaminants at highly contaminated sites. It is also intended for regulatory authorities and environmental planners who wish to learn more about metal bioavailability, risk relations and site remediation.

Contents:
FUNDAMENTAL PRINCIPLES
. Risk Assessment in Environmental Contamination and Environmental Health: Michael Moore
. The Role of Chemical Separation in Bioavailability: Sébastien Suavé
. Bioavailability of Metals in the Soil-plant Environment and its Potential Role in Risk Assessment: R. Naidu et al.

INDICATORS OF BIOAVAILABILITY
. Microbial Parameters as Indicators of Toxic Effects of Heavy Metals on the Soil Ecosystem: Phil Brooks
. Metal-Algae Interactions: Implications of Bioavailability: M. Megharaj et al.
. Absorption and Translocation of Chromium by Plants: Plant Physiological and Soil Factors: R.H. Loeppert et al.

CASE STUDIES

. Effects of Mine Wastewaters on Freshwater Biota in Tropical Northern Australia: Scott J. Markich et al.
. Inplace Inactivation and Natural Ecological Restoration Technologies (IINERT): W.R. Berti and J.A. Ryan
. An Assessment of the Revegetation Potential of Acidic Basemetal Tailings using Metal-tolerant Grass Species and Lime: W.J. Morrell et al.
. Groundwater Arsenic Contamination in West Bengal--India and Bangladesh: Case Study on Bioavailability of Geogenic Arsenic: Uttam Kumar Chowdhury et al.
. Plant Soil Metal Relationships from Micro to Macro Scale: K. Bujtas et al.