

Ecological Assessment of Selenium in the Aquatic Environment



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Based on the work and contributions of 46 scientists, managers, and policymakers, **Ecological Assessment of Selenium in the Aquatic Environment** documents the state of the science and explores how to use this information when assessing and managing the environmental effects of Se. A focused discussion on the fate and effects of Se in aquatic ecosystems, the book reviews:

- Past and current problems related to Se in aquatic environments, together with lessons learned, and provides a generalized conceptual model
- Environmental partitioning, in particular Se speciation leading to its entry into the food chain, and provides conceptual models specific to environmental partitioning.
- Se bioaccumulation and trophic transfer from the physical environment (i.e., water-column particulates), and from primary producers to herbivores to carnivores, including the influence of modifying ecological factors
- Toxic effects from Se, in particular body burdens and their relationship to toxicity

Filled with practical guidance and concise information on how to conduct selenium risk assessments in the aquatic environment, the book contains the latest information on assessment techniques, elucidates the current state of contamination in industrialized countries, and raises awareness for developing nations. Written by leading experts, it describes best practices for designing experiments to collect information on aquatic effects and trophic transfer of selenium for risk assessments, presents numerous case studies both domestic and international, and gives insight as to how current and future ecosystems may or may not be affected.



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