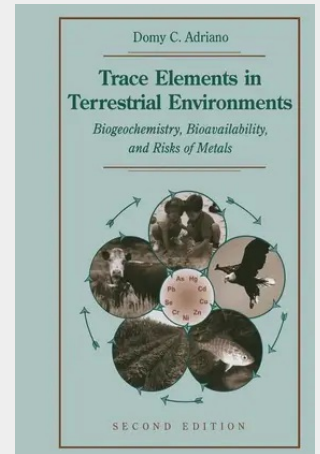


Trace Elements in Terrestrial Environments

Biogeochemistry, Bioavailability, and Risks of Metals

Knowledge is not to be sought for the pleasures of the mind, or for contention, or for superiority to others, or for profit, or fame, or power, or any of these inferior things, but for the benefit and use of life. -Sir Francis Bacon Based on citations in the literature, it is evident the first edition, entitled Trace Elements in the Terrestrial Environment (1986), met its primary objective, which was to provide students and professionals with a comprehensive book in many important aspects of trace elements in the environment. Indeed the extent of its use has exceeded my expectations. As a result of its usefulness and encouragement by colleagues in the field, I was compelled to write this edition following a similar format, but including new chapters on biogeochemistry, bioavailability, environmental pollution and regulation, ecological and human health effects, and risk and risk management and expanding the coverage to include freshwater systems and groundwater where appropriate. In addition to plants, which was the main biota of emphasis in the earlier edition, fish and wildlife and invertebrates (both terrestrial and aquatic) are discussed as necessary. The ecological and human health effects of major environmental contaminants, such as As, Cd, Cr, Pb, and Hg are also highlighted, along with relevant information on potential risks to the ecology and human health.

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