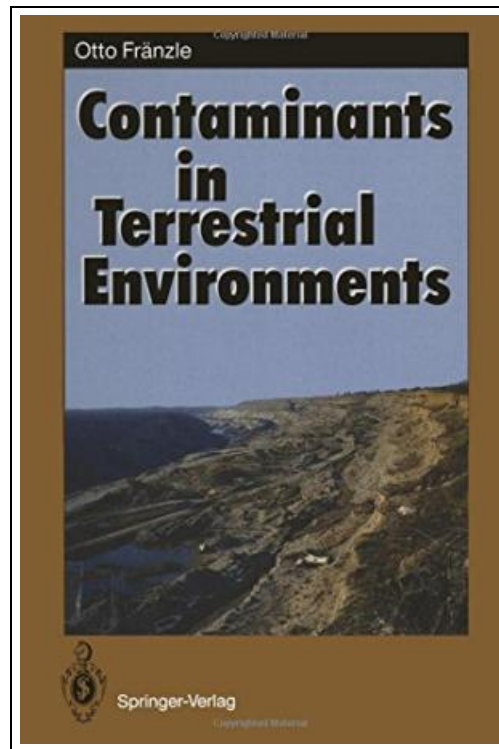


Contaminants in Terrestrial Environments



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CONTAMINANTS IN TERRESTRIAL ENVIRONMENTS



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Book Condition: New. Publisher/Verlag: Springer, Berlin | Defining ecology as a system-theory oriented synthesis of both earth and life sciences, the book aims at a novel coherent understanding of chemical impact on the lower atmosphere and characteristic types of terrestrial ecosystems. To this end comprehensive flux-analytical and hierarchical modelling approaches were developed and consulted, which include a thorough consideration of the specific physical and geographic boundary conditions of the processes involved. The first part is devoted to fundamentals of environmental chemistry and ecology, while the second deals with the complex atmospheric pathways of anthropogenic chemicals. In the last part, the manifold interactions of these compounds or their metabolites with the soil-vegetation complex of ecosystems are described. Chapters on pollutant impact on materials and a review of chemical fate modelling are included. Thus scientists and practitioners facing ecological projects may expect to obtain a deeper insight into landscape ecology from the impact point of view owing to the concise presentation of complex mechanisms and the generalized modelling approach. | 1 Introduction.- 1.1 Man and Environment.- 1.2 Technical Chemistry and Ecology.- 2 Basic Chemical and Ecological Principles.- 2.1 Exposure and Effect Criteria of Chemicals.- 2.1.1 Structure-Activity Relationships.- 2.1.1.1 Chemical Structure Descriptors.- 2.1.1.2 Techniques for Defining Structure-Activity Relationships.- 2.1.2 Equilibrium Constants for Chemicals Distribution.- 2.1.2.1 Aggregate State and Related Properties.- 2.1.2.2 Specific Gravity, Molar Mass and Structure.- 2.1.2.3 Melting and Boiling Points.- 2.1.2.4 Vapour Pressure, Vapour Density and Volatility.- 2.1.2.5 Water Solubility.- 2.1.2.6 n-Octanol/Water Partition Coefficient.- 2.1.3 Kinetic Constants for Environmental Processes.- 2.1.3.1 Hydrolysis.- 2.1.3.2 Photolysis.- 2.1.3.3 Oxidation and Reduction.- 2.1.3.4 Biotransformation.- 2.1.3.5 Bioconcentration, Bioaccumulation and Ecological Magnification.- 2.2 Stability of Ecosystems.- 2.2.1 Different Notions of Stability.- 2.2.2 Stability and Diversity of Ecological Communities.- 2.2.2.1 Diversity Analyses.- 2.2.2.2 Ecological Communities as Dissipative Structures.- 2.3 Biota Resilience...

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