



# **Ecotoxicology: Ecological Fundamentals, Chemical Exposure, and Biological Effects (Environmental Science and Technology: A Wiley-Interscience Series of Texts and Monographs)**

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## **Ecotoxicology: Ecological Fundamentals, Chemical Exposure, and Biological Effects (Environmental Science and Technology: A Wiley-Interscience Series of Texts and Monographs) From Wiley-Interscience**

A fresh and comprehensive overview of ecotoxicology today

This book provides comprehensive single-source coverage of the entire field of ecotoxicology, from the ecological basics to the effects of chemicals on the environment and the latest test strategies.

Contributions by leading figures in ecotoxicology from around the world reflect the broad scope of current thinking and research, making this volume essential reading for informed professionals and students. Areas covered include:

- \* Ecosystem sensitivity, principles for analysis, and other fundamentals
- \* Fate, distribution, and speciation of chemicals in the environment
- \* Bioaccumulation and effects of chemicals
- \* Ecotoxicological test systems
- \* Concepts of ecological risk assessment

Incorporating numerous examples and case studies, this cutting-edge reference is an invaluable resource for those working in environmental toxicology, chemistry, ecology, medicine, engineering, and other related disciplines.

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- Rank: #12896112 in Books
- Published on: 1997-12-02
- Original language: English
- Number of items: 1
- Dimensions: 9.52" h x 1.91" w x 6.35" l, 3.18 pounds
- Binding: Hardcover
- 936 pages



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## **Editorial Review**

### **From the Publisher**

This book focuses on toxic substances and their effect on ecosystems. Information on ecological fundamentals, chemicals in the environment, effects of chemicals on aquatic and terrestrial systems, concepts of ecological risk assessment, and ecotoxicological test systems is covered in a comprehensive manner.

### **From the Back Cover**

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### **About the Author**

**GERRIT SCHÜRMANN**, PhD, is Head of the Department of Chemical Ecotoxicology at the UFZ Centre for Environmental Research in Leipzig and Honorary Professor at the University of Leipzig, Germany. His research interests include the exposure, transformation, bioaccumulation and ecotoxicological profile of xenobiotics in aquatic and terrestrial environments, prediction of physicochemical properties and molecular reactivity of compounds, structure-activity relationships and modes of chemical toxicity, and methods for the hazard and risk assessment of chemicals.

**BERND A. MARKERT**, PhD, is Professor of Environmental High Technology and Director of the International Graduate School (IHI) in Zittau, Germany. His professional interests include the biochemistry of trace substances in the water/soil/plant system, instrumental analysis of chemical elements, eco- and human-toxicological aspects of hazardous substances, pollution control by use of bioindicators and technologies for waste management, environmental restoration, and remedial action on soils.

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