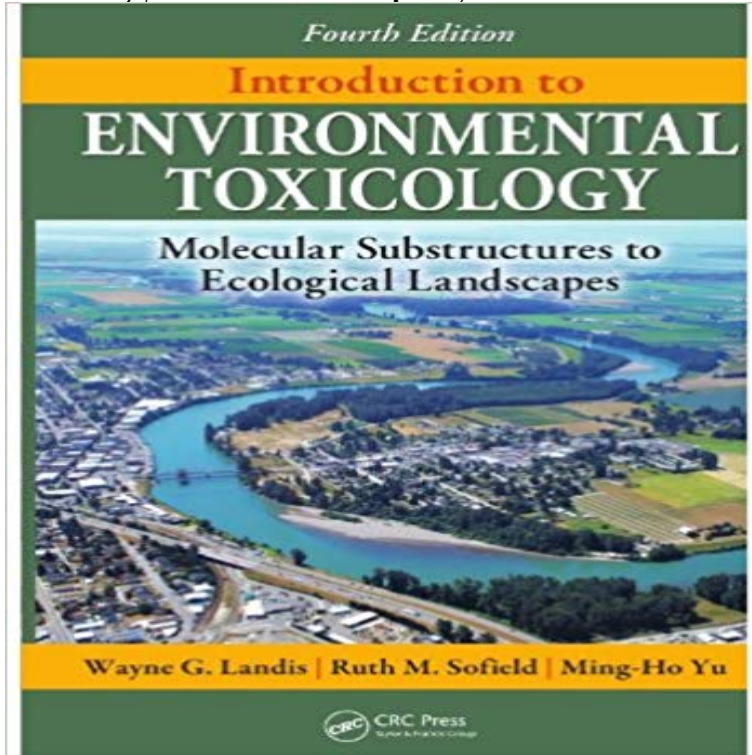


# Introduction to Environmental Toxicology: Molecular Substructures to Ecological Landscapes, Fourth Edition



After fifteen years and three editions, Introduction to Environmental Toxicology: Molecular Substructures to Ecological Landscapes has become a standard that defines the field of environmental toxicology, and the fourth edition is no exception. The authors take an integrated approach to environmental toxicology that emphasizes scale and context as important factors in understanding effects and management options. New in the Fourth Edition: New author, Dr. Ruth M. Sofield; 8-page color insert; New chapter on fate and transport of contaminants; Emphasis on the use of all types of models in understanding how nature works; Revised sections on synergy and atrazine toxicity; Updated coverage of the analysis of impacts to populations, communities and ecosystems; Enlarged risk assessment chapter with an in-depth description of a regional scale risk assessment; This edition benefits from the insight of a new author, Dr. Ruth M. Sofield, who prepared the new chapter on the fate and transport of contaminants. The relationship between structure and toxicological properties has been a major theme of this book since its inception and this new chapter expands this fundamental concept to include fate and transport. In the early chapters the use of models in science is discussed and this theme carries throughout the rest of the book. So much has changed in the fifteen years since the publication of the first edition. The mid-1990s seem so long ago, when our understanding of environmental toxicology was very basic. Ecological risk assessment was in its very early stages and the consideration of the effects of toxicants on landscapes was only beginning. Computation was still hard, genes stayed put, and it was only becoming recognized that xenobiotics could have hormonal effects developments that are taken for granted in this edition. Written by authors

who teach this subject, a feature that is reflected in their straightforward style, the book provides a foundation for understanding environmental toxicology and its application.

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