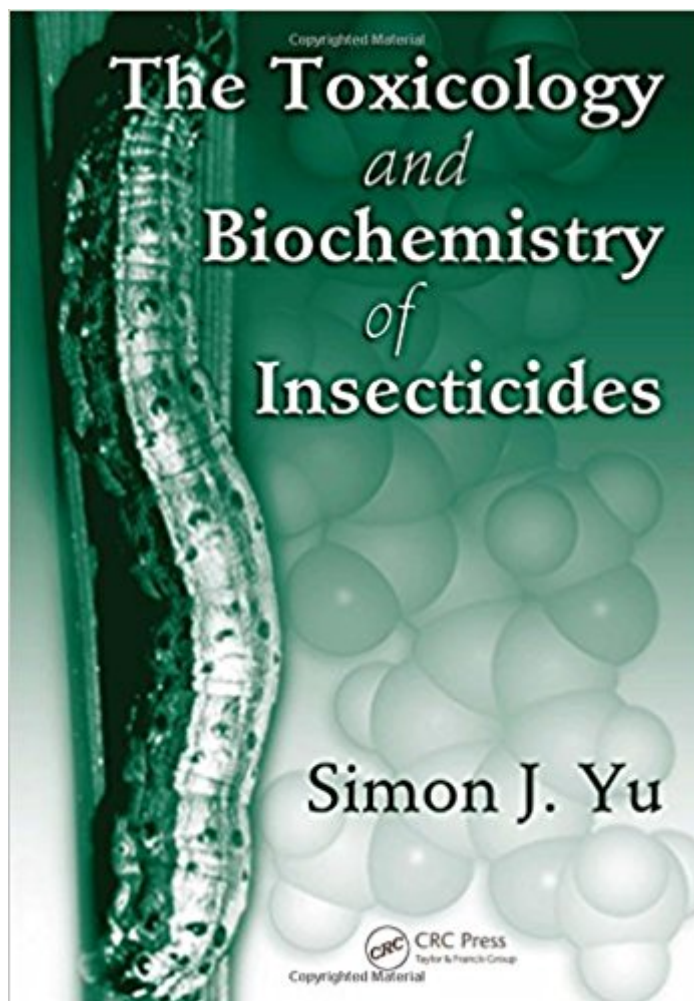


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# The Toxicology And Biochemistry Of Insecticides



## Synopsis

The first book in two decades to address this multi-faceted field, *The Toxicology and Biochemistry of Insecticides* provides the most up-to-date information on insecticide classification, formulation, mode of action, resistance, metabolism, environmental fate, and regulatory legislation. The book draws on the author's groundbreaking research in insect detoxification. It discusses mechanisms at the molecular level such as specific enzymes that contribute to insecticide resistance, the modification of which can change insecticide susceptibility and influence host plant selections in phytophagous insects. Beginning with a general introduction, eleven chapters integrate classical toxicology with physiology, biochemistry, and molecular biology to present a comprehensive look at the field. The book discusses the demand and formulation of pesticides and describes each type from dusts and powders to baits and aerosols. It classifies insecticides by target, chemical compound, and mechanism; evaluates toxicity testing procedures; explains pesticide uptake, mode of action, and metabolism; and explores species differences, resistance, and interactions. It also considers pesticides in the environment and federal and state regulatory legislation and enforcement. A long-awaited, state-of-the-science review on insect toxicology, this indispensable book brings you up-to-date on the many aspects and implications of pesticide use and provides the necessary background and platform from which to conduct future research.

## Book Information

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## Customer Reviews

"Applicable to a diversity of students from entomology, pest management and related

agricultural disciplines. This book provides an updated and comprehensive introductory textbook for students of insecticide toxicology that incorporates traditional toxicological concepts, including uptake, mode of action, and principles of xenobiotic metabolism with an up-to-date cataloging of both historically important insecticide classes and novel chemistries and their mode of action. This information provides a solid foundation for developing more complex issues, such as the role of xenobiotic metabolism as it relates to selective toxicity and resistance evolution. The book presents material in an easy to read outline that is well-organized and illustrated with many line drawings and tables providing the reader with ample opportunity to interpret data that enhances understanding of a certain topic. This text is a valuable basic reference for students of insecticide toxicology. I have recommended the text for my own course and have received positive feedback from a diversity of students." Blair D. Siegfried, Department of Entomology, University of Nebraska-Lincoln

This book is a great choice if someone wants to get to understand all the information about the insecticides we use or used for agricultural. Very useful and simple to get an understanding on how insect pests are affected by insecticides, as well as the resistance they might develop overtime. I recommend it!

Quickly and new. Good service and fast. Im satisfied with my purchase. Recommended!! hh hhh hhh hhh hh hh hh

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