



# The Toxicology and Biochemistry of Insecticides, Second Edition

By Simon J. Yu

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**The Toxicology and Biochemistry of Insecticides, Second Edition** By Simon J. Yu

Despite their potentially adverse effects on nontarget species and the environment, insecticides remain a necessity in crop protection as well as in the reduction of insect-borne diseases. **The Toxicology and Biochemistry of Insecticides** provides essential insecticide knowledge required for the effective management of insect pests.

Continuing as the sole book in more than two decades to address this multifaceted field, the **Second Edition** of this highly praised review on insecticide toxicology has been greatly expanded and updated to present the most current information on:

- Systemic classification of insecticides
- How insecticides function at the molecular level and newly discovered modes of action
- Insecticide resistance, molecular mechanisms, fitness costs, reversion, and management of resistance
- Various bioassay methods including the interpretation of probit analysis
- Molecular mechanisms of insecticide selectivity
- Major biochemical mechanisms involved in the transformation of insecticides
- Fate of insecticides in the environment and the sublethal effects of insecticides on wildlife
- Newly developed insecticides, including the addition of more microbial insecticides in keeping with current integrated pest management (IPM) approaches

Incorporating extensive reference lists for further reading, **The Toxicology and Biochemistry of Insecticides, Second Edition** is an ideal textbook for students of entomology, plant medicine, insecticide toxicology, and related agricultural disciplines. It is also a valuable resource for those involved in insecticide research, environmental toxicology, and crop protection.

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