



Pesticide Residues in Foods: Methods, Techniques, and Regulations

W. George Fong, H. Anson Moye, James N. Seiber, John P. Toth

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Advances in analytical chemistry methodology now allow us to detect the most minute trace amounts of pesticides. As this capacity grows, so does public concern about toxic contamination, resulting in stricter government regulations and a growing demand for even more sensitive, precise, and reliable analysis.

Addressing the interplay between regulations and the development of analytical technology, this volume presents the first unified treatment of the regulatory and analytical aspects of pesticide residues. Current regulations, existing and emerging methodologies, state-of-the-art instrumentation, and the basic science of analyzing for pesticides in food and other environmental media are all covered.

The book provides step-by-step guidelines to analytical techniques, along with real-world examples from the latest research-showing the reader how to analyze minute traces of pesticides quickly and accurately, using both highly sophisticated and basic, less sensitive techniques. Many safety issues are explored in depth, as are the regulatory aspects of pesticide registration, residue analysis, exposure monitoring, risk assessment, and tolerance enforcement.

Timely, authoritative, and practical throughout, *Pesticide Residues in Foods* is an invaluable reference for analytical chemists and laboratory managers everywhere-in industry, agriculture, environmental sciences, research, and instrument manufacturing-and for anyone with an interest in the broader environmental, agricultural, and consumer-related implications of pesticide use.

An invaluable resource for analytical chemists and laboratory managers, *Pesticide Residues in Foods* provides a complete overview of the theory, practice, and regulatory aspects of pesticide residue analysis today, including:

- * All regulatory issues, from risk assessment and tolerance to data-quality requirements to laboratory accreditation standards
- * State-of-the-art methodologies and instrumentation, including high- performance liquid chromatography and mass spectrometry
- * The application of analytical technology to "green chemistry," such as the reduction of solvents and toxic reagents in the laboratory
- * Novel solutions to the old problem of keeping the food supply safe from harmful levels of pesticides
- * Ample examples to help analytical chemists select the most appropriate method for a given residue analysis
- * Easy-to-use tables and figures throughout the text

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