

Recent Advances in the Chemistry of Insect Control

Edited by N. F. Janes

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From the earliest discovery that pyrethrum flowers had usable insecticidal activity and the first major investigation of the pyrethrins published in 1924, pyrethroids have grown from a minor to a major group of insecticides, other groups of active compounds have been discovered, and pesticide chemistry has advanced beyond recognition.

This publication covers recent advances in the synthesis and evaluation of highly active compounds such as the avermectins and milbemycins and a range of insect pheromones and antifeedants, aspects of structure – activity relationships in insecticides, including pyrethroids (where stereochemistry is highlighted), carbamate propeesticides, and juvenile hormone mimics.

Contents:

The Biochemical Mode of Action of Insecticides; Stereochemical Aspects of Pyrethroid Chemistry; The Avermectins; Lipophilic Insect Control Agents; Oxime Ethers: New Potent Insect Growth Regulators; Multidisciplinary Studies in the Design of New Insecticides; Some Aspects of Structure – Activity Relationships in Pyrethroids; Synthesis and Biological Activity of 2-Indanyl Pyrethroid Esters; New Intermediates for the Synthesis of Pyrethroids; A New Type of Synthetic Pyrethroid Insecticide; Structure – Activity Relationships of Methylcarbamoyloximes and Their Sulfenylated Derivatives; Discovery of Thiodicarb; Synthetic Approaches to the Avermectin Toxophore; Synthetic Studies towards the Avermectins and Milbemycins; The Application of Novel Carbanion Chemistry in Milbemycin – Avermectin Synthesis; Phytochemical Resources for Plant Protection; Chiral Synthesis: Examples in the Pheromone Field; Synthesis of Some Insect Antifeedants.

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Recent Developments in the History of Chemistry

Edited by C. A. Russell

Hardcover 344pp ISBN 0 85186 917 3 PRICE £27.50 (\$36.00)
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This book is intended primarily to inform chemists of recent progress in the history of chemistry. It originated from an initiative of the Historical Group of the Royal Society of Chemistry who for some considerable time had been aware of a rising surge of interest amongst chemists in the history of their subject. Yet there was also considerable frustration in obtaining reliable and up-to-date information, in understanding recent trends and in perceiving the relevance to specific problems of some of the less obviously 'chemical' writing of the last few years. Those with whom the Group was in touch included chemistry teachers wishing to introduce – perhaps only occasionally – historical elements into their school curricula. Others who expressed both interest and frustration were members of university and polytechnic chemistry departments, chemists in industrial research and those who had taken early or normal retirement. These are the readers for whom this book has been published, although it is hoped that professional historians of science may also find it to be of interest and value in its general surveys of the literature.

Brief Contents:

Chemical Biographies; Chemical Education and Chemical Institutions; Chemistry to 1800; General and Inorganic Chemistry; Organic Chemistry; Physical Chemistry; Analytical Chemistry; Biochemistry; Instruments and Apparatus; Industrial Chemistry; Chemistry by Location in Western and Central Europe; Appendix I Periodicals for The History of Chemistry; Appendix II Some Useful Addresses; Author, Subject and Themes Indexes.

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