



## **Green Trends in Insect Control: RSC (RSC Green Chemistry)**

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# Green Trends in Insect Control: RSC (RSC Green Chemistry)

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This book presents the current approaches for insect pest control as a "green" alternative to classical and more toxic agrochemicals. An overview of the recent advances in insecticide chemistry is also included, which will be of interest to a vast group of researchers - agrochemists, biochemists, chemists and toxicologists. The combination of both chemical and toxicological aspects of insecticides is unique and the book includes contributions from synthetic chemists, entomologists, environmentalists and toxicologists giving it wide appeal. Throughout the book, the different approaches that involve "greener chemicals" are emphasized. The book is divided into 9 chapters, each considering the state of art of each family of insecticides, together with future expectations. Each chapter gives a description of useful biorational insecticides, highlighting environmentally-friendly processes and then the mode of action is fully-described, emphasizing selectivity towards targeted species. Finally, for every family of compounds, their environmental effects (toxicity, bioaccumulation and metabolism) is considered, comparing them to classical insecticides, including human and environmental risk assessments. In addition the formulation, dispersal and persistence in the environment are covered as key aspects in developing greener agrochemicals. The book also includes a general introduction to entomology, with special emphasis on those insects that act as vectors in the spread of diseases. Insects that may be potential pests against humans and livestock are included, focusing on their life cycles, and physiology, as a logical comprehension of mode of action of insecticides. In addition there is a chapter on classical insecticides (covering both, approaches prior to the chemical era, and classical chemical insecticides, organochlorinated, organophosphorus, and carbamates) for comparison with current trends in pest control. The negative environmental effects that such insecticides have caused in nature, such as poisonings, bioaccumulation or toxic effects are highlighted. It is hoped that the use of more specific agrochemicals and approaches may avoid, or at least considerably reduce such severe and irreversible effects in nature. The insecticides covered are considered from numerous points of views: chemistry, toxicological profile, risk assessment, legal status, environmental behaviour and selectivity. The most important families of currently used insecticides are covered and critical discussions about future perspectives are included with frequent comparisons to classical insecticides. The following topics are covered in the book, as greener alternatives to classical insecticides: " Pyrethrins and pyrethroids " Neonicotinoids " Spinosins " Insect growth regulators " Botanical insecticides " Microbial insecticides " Integrated Pest Management Programs (IPM)

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