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e9780123743671v1; Front Cover; Hayes' Handbook of Pesticide Toxicology, Third Edition; Copyright Page; Dedication; Contents of Volume 1; Contributors; Foreword; Preface; Section I: Pesticide Uses; Chapter 1. Dose and Time Determining, and Other Factors Influencing, Toxicity; 1.1 Introduction; 1.1.1 Dose and Time as Fundamental Variables of Toxicity; 1.1.2 Definition of Dose and Time; 1.1.3 Dose and Time Relationships; 1.1.4 Analogy to Thermodynamics; 1.2 Kinds of toxicity; 1.2.1 Nature of the Injury; 1.2.2 Duration of the Injury; 1.3 Quantitation of dosage-response relationships; 1.3.1 ED 50 or LD 50; 1.3.2 Measurement of Cumulative Effects; 1.3.3 Time Relationships; 1.3.4 Problem of Measuring Effect of Dispersed Toxicants; 1.3.5 Measurement of Graded Responses; 1.3.6 Dosage at the Tissue Level; 1.3.7 Statistical Considerations; 1.4 Dosage-response relationships in different kinds of toxicity or change; 1.4.1 Toxicity (Sensu Stricto); 1.4.2 Neurotoxicity; 1.4.3 Teratogenesis; 1.4.4 Carcinogenesis; 1.4.5 Mutagenesis; 1.4.6 Hypersensitivity and Allergy; 1.4.7 Induction of Enzymes; 1.4.8 Metabolism and Storage; 1.5 Factors influencing toxicity of any kind; 1.5.1 Dosage; 1.5.2 Compound; 1.5.3 Interaction of Compounds; 1.5.4 Schedule of Dosage; 1.5.5 Duration of Dosage; 1.5.6 Route of Exposure; 1.5.7 Species and Strain Differences; 1.5.8 Discussion of Factors Influencing Toxicity; Chapter 2. Pest Toxicology: The Primary Mechanisms of Pesticide Action; 2.1 Introduction; 2.2 Primary targets; 2.3 Secondary targets; 2.4 Common target for structurally diverse pesticides; 2.5 Resistance as a limiting factor; 2.6 Nerve; 2.7 Photosynthesis and pigment synthesis; 2.8 Biosynthesis; 2.8.1 Herbicides; 2.8.2 Fungicides and Insecticides; 2.9 Respiration; 2.10 Growth regulators; 2.11 Unknown, nonspecific and other targets; 2.12 Overview; 2.13 Conclusion; 2.14 Postscript; Acknowledgments; Chapter 3. Pest Control Agents from Natural Products; 3.1 Introduction; 3.2 Insect control agents; 3.2.1 Botanical Insecticides; 3.2.2 Microbial Insecticides; 3.2.3 Semiochemicals; 3.3 Disease control agents; 3.3.1 Fungicides; 3.3.2 Bactericides; 3.4 Herbicides; 3.4.1 Bialaphos (Bialaphos); 3.4.2 Glufosinate; 3.5 Rodenticides; 3.5.1 Strychnine; 3.5.2 Red Squill and Scilliroside; 3.5.3 Ricin; 3.5.4 Salmonella Bacteria; Chapter 4. Public Health Pesticides; 4.1 Introduction; 4.2 Definition of terms in vector-borne diseases; 4.3 Impact of arthropods on human health; 4.4 Integrated pest management and vector management; 4.4.1 Noninsecticidal Methods in Vector Management; 4.4.2 Chemicals in Vector Management; Conclusion; Chapter 5. The Changing Role of Insecticides in Structural Pest Control; 5.1 Introduction; 5.2 Pest problems: real or perceived; 5.3 Environmental and health concerns; 5.4 Insecticide applications; 5.4.1 Nonresidual Insecticides; 5.4.2 Residual Insecticides; 5.5 Soil treatments for subterranean termites; 5.6 Baits and baiting; 5.7 Future directions

Sommario/riassunto

The Handbook of Pesticide Toxicology is a comprehensive, two-volume reference guide to the properties, effects, and regulation of pesticides that provides the latest and most complete information to researchers investigating the environmental, agricultural, veterinary, and human-health impacts of pesticide use. Written by international experts from academia, government, and the private sector, the Handbook of Pesticide Toxicology is an in-depth examination of critical issues related to the need for, use of, and nature of chemicals used in modern pest management. This updated 3