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Nota di contenuto	Part 1. Conservation of natural enemies and functional biodiversity in Neotropical agroecosystems -- 1. Vegetational design to enhance biological control of insect pests in agroecosystems -- 2. Interactions of natural enemies with non-cultivated plants -- 3. Quality of agroecosystems as habitats to natural enemies and biological control agents -- 4. Plants as food for adult natural enemies -- 5. Dispersion and increase of natural enemies in agroecosystems -- 6. Climate change and biological control of pests in agriculture -- Part 2. Bioecology of natural enemies used in biological control in the Neotropical region -- 7. Predator insects -- 8. Predator mites -- 9. Parasitoid insects -- 10. Entomopathogenic nematodes -- 11. Entomopathogenic fungi -- 12. Entomopathogenic virus -- 13. Bacillus

thuringiensis -- 14. Interactions of entomopathogenic fungus with entomophagous insects in agroecosystems -- Part 3. Mass production of biocontrol agents in Latin America: rearing techniques and releasing strategies -- 15. Predators insects -- 16. Predatory mites for the biological control of phytophagous mites -- 17. Parasitoid insects -- 18. Entomopathogenic nematodes -- 19. Entomopathogenic fungi -- 20. Entomopathogenic virus -- 21. *Bacillus thuringiensis* -- Part 4. Biological control in major crops, forests, pasture, weeds and plant diseases in the Neotropical region -- 22. Bean -- 23. Coffee -- 24. Cotton -- 25. Forests -- 26. Fruit crops -- 27. Maize -- 28. Oleraceous -- 29. Ornamental plants -- 30. Pasture -- 31. Rice -- 32. Soybean -- 33. Sugarcane -- 34. Microbial control of sugarcane pests -- 35. Weeds -- 36. Plant diseases -- 37. Physiological and ecological selectivity of pesticides for natural enemies of insects -- 38. Use of natural chemical products for pest control -- 39. Effects of transgenic plants over natural enemies -- 40. Use of silicon as resistance factor for plants against insect pests. Use of semiochemical-based strategies to enhance biological control -- 41. Use of semiochemical-based strategies to enhance biological control -- 42. Aphid-tending ants and their effects on natural enemies used in the biological control -- Index.

Sommario/riassunto

This book aims to address the importance of natural enemies and functional diversity for biological control in Neotropical agroecosystems. Several aspects related to the conservation of natural enemies, such as vegetation design and climate change, are discussed in Part 1 and the bioecology of several insects groups used in biological control in Latin America is presented in Part 2. Part 3 is devoted to mass production of natural enemies while Part 4 describes how these insects have been used to control of pests in major crops, forests, pasture, weeds and plant diseases. Lastly, Part 5 reports Latin-American experiences of integration of biological in pest management programs.
