Record Nr.	UNINA9910253880003321
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Titolo	Sustainable Crop Protection under Protected Cultivation / / by P. Parvatha Reddy
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2016
ISBN	981-287-952-8
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (451 p.)
Disciplina	570
Soggetti	Agriculture Sustainable development Conservation biology Ecology Plant ecology Plant physiology Sustainable Development Conservation Biology/Ecology Plant Ecology Plant Physiology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	 Protected Cultivation 2. Greenhouse Technology 3. Crop Protection 4. Disinfestation Of Soil And Growth Media For Management Of Soil-Borne Diseases 5. Biological Control Of Plant Pathogens 6. Compost In Disease Management 7. Grafted Vegetables For Management Of Soil-Borne Pathogens 8. Biorational Pest Management 9. Drip Chemigation For Insect Pest Management 10. Selective Pesticides In IPM 11. Plant Diseases And Their Management 12. Fungal Diseases And Their Management 13. Bacterial Diseases And Their Management 14. Viral Diseases And Their Management 15. Nematode Diseases And Their Management 16. Insects Pests And Their Management 17. Aphids And Their Management 18. Thrips And Their Management 19. Whiteflies And Their Management 20. Pest And Predatory Mites 21.

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	Strawberry 22. Tomato 23. Bell Pepper 24. Cucumber 25. Cole Crops 26. Lettuce 27. Rose 28. Carnation 29. Gerbera 30. Chrysanthemum 31. Gladiolus 32. Lilies 33. Orchids 34. Anthuriums 35. The Way Forward.
Sommario/riassunto	This book focuses on pests (insect and mite) and diseases (fungal, bacterial, viral and nematode) in protected horticulture (fruits, vegetables and ornamentals) using physical, cultural, chemical, biological, host resistance, and integrated methods. It opens with chapters describing the setting in which integrated pest and disease control operates, i.e., the greenhouse and its environment. Subsequent chapters present the basic strategies and tactics of different control methods including integrated control, with special reference to greenhouse crops. Further chapters include the different facets of biological pest and disease control – its scientific bases, its development in practice, its commercialization and quality control. The concluding chapters of the book highlight the present status of integrated pest and disease control for the most important greenhouse crops (fruits, vegetables and flower crops) worldwide. The book's final chapter explores future challenges for researchers assigned to identify non-pesticide methods that will have minimal adverse environmental and social impacts. Among productivity-enhancing technologies, protected cultivation has a tremendous potential to increase the yield of vegetables and flower crops by severa I fold. Pests and diseases are one of the major challenges to protected cultivation. Year-round warm temperatures and relatively high humidity together with abundant food make the protected environment of greenhouses highly attractive to pests and diseases. Nevertheless, very little attention has been paid to the manipulation of greenhouse environments expressly to avoid disease environment of greenhouses environments expressly to avoid all members of the scientific community involved in teaching, research and extension activities on protected horticulture. It also offers a useful reference guide for policymakers and practicing farmers, and can be used as a textbook for postgraduate courses.