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Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (434 p.)
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Soggetti	Agriculture Plant science Botany Invertebrates Plant pathology Plant genetics Zoology Plant Sciences Plant Pathology Plant Genetics and Genomics
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	1. Horticulture and its Role in the National Economies.- 2. Phytonematodes - Threat to Horticulture -- 3. Phylogenetic and Evolutionary Concepts in Nematodes -- 4. Major Phytonematodes associated with Horticultural Crops and their Diagnostic Keys -- 5. Symptoms caused by Phytonematodes and Disease Diagnosis -- 6. Nematode Population Threshold Levels -- 7. Crop Loss Assessment -- 8. Nematode Diseases of Horticultural Crops -- 9. Nematode Disease Complexes -- 10. Genetics of Nematode Parasitism -- 11. Nematological Techniques -- 12. Nematodes of Quarantine Importance -- 13. Novel Methods of Nematode Management -- Bibliography.
Sommario/riassunto	The major objective of this book is to highlight the significance of phytonematodes in horticulture. Detailed and latest information on major aspects of phytonematodes associated exclusively with horticultural crops, which is the need of the day, is lacking. Hence, the

book has been written mainly with the objective of providing its readers, comprehensive information on the advanced aspects related to phytonematodes associated with horticultural crops. It also provides basic information on plant parasitic nematodes since it is required for a better understanding of advanced topics. Several popular topics, information on which is already available in plenty, have been avoided. Thus, book explicates both the essential fundamental and advanced aspects pertaining to nematodes associated with horticultural crops. The book is conveniently divided into 13 chapters, which cover latest information on the major fundamental and advanced aspects related to phytonematodes including the role of phytonematodes in horticultural industry, phylogenetic and evolutionary concepts in nematodes, major phytonematodes associated with horticultural crops and their diagnostic keys, symptoms caused by phytonematodes and disease diagnosis, nematode population threshold levels, crop loss assessment, nematode diseases of horticultural crops and their management, nematode disease complexes, genetics of nematode parasitism, important nematological techniques and nematodes of quarantine importance. An exclusive chapter on novel methods of nematode management has been included mainly to provide the information on the latest molecules and novel modes of managing nematodes attacking horticultural crops. Routine nematode management aspects, information on which is already available, have not been discussed; instead, this topic reflects the changing scenario of future nematode management. Hence, this book can serve as a friendly guide to meet the requirements of the students, teachers and researchers interested in these ‘hidden enemies’ of the grower, apart from the research and extension personnel working under Public organizations, officials of State departments of Horticulture, Forestry, field workers and all those concerned and working with plant parasitic nematodes. Appropriate diagrams, convincing tables and suitable graphs/illustrations have been furnished at right places. A complete bibliography has also been included.