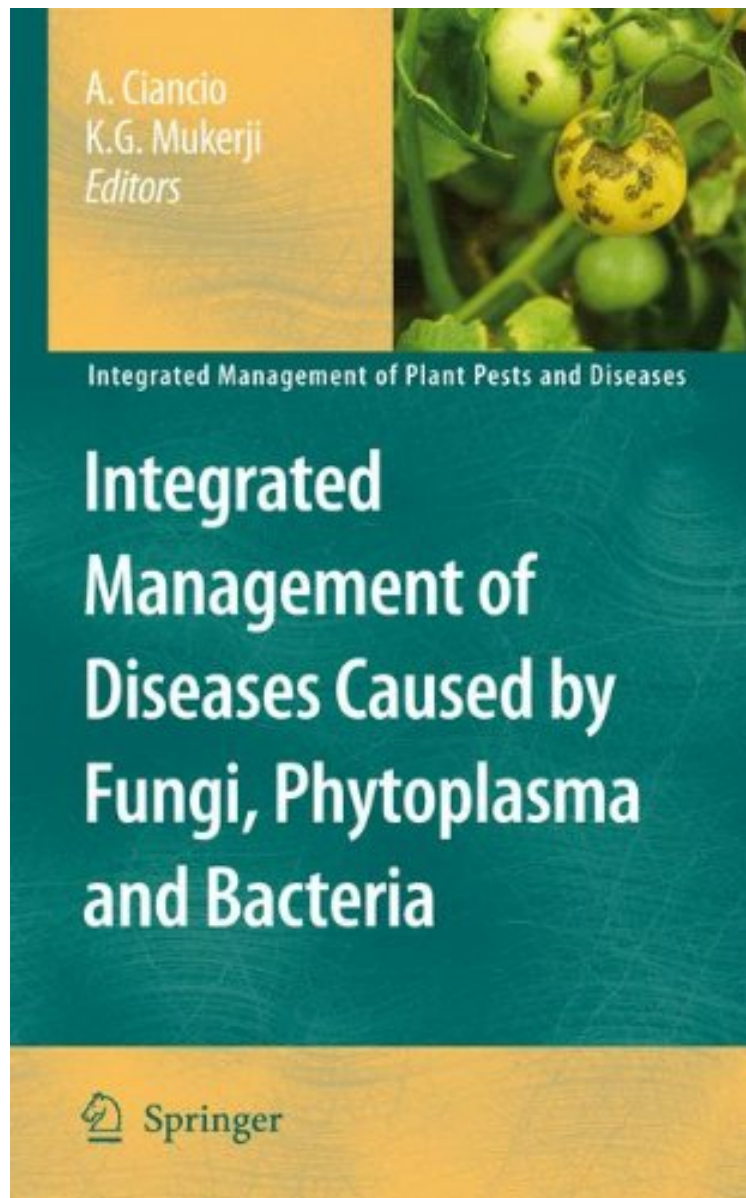


(Mobile book) Integrated Management of Diseases Caused by Fungi, Phytoplasma and Bacteria (Integrated Management of Plant Pests and Diseases)

Integrated Management of Diseases Caused by Fungi, Phytoplasma and Bacteria (Integrated Management of Plant Pests and Diseases)

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before purchasing it in order to gauge whether or not it would be worth my time, and all praised *Integrated Management of Diseases Caused by Fungi, Phytoplasma and Bacteria (Integrated Management of Plant Pests and Diseases)*:

This volume focuses on integrated pest and disease management (IPM/IDM) and biocontrol of some key diseases of perennial and annual crops. It continues a series originated during a visit of prof. K. G. Mukerji to the CNR Plant Protection Institute in Bari (Italy), in November 2005. Both editors aim at a series of five volumes embracing, in a multi-disciplinary approach, advances and achievements in the practice of crop protection, for a wide range of plant parasites and pathogens. Two volumes of the series were already produced, dedicated to general concepts in IPM and to management and biocontrol of nematodes of grain crops and vegetables. This Volume deals, in particular, with diseases due to bacteria, phytoplasma and fungi. Every day, in any agroecosystem, farmers face problems related to plant diseases. Since the beginning of agriculture, indeed, and probably for a long time in the future, farmers will continue to do so. Every year, plant diseases cause severe losses in the global production of food and other agricultural commodities, worldwide. Plant diseases are not limited to episodic events occurring in single farms or crops, and should not be regarded as single independent cases, affecting only farms on a local scale. The impact of plant disease epidemics on food shortage ignited, in the last two centuries, deep cultural, social and demographic changes, affecting million human beings, through i. e. migration, death and hunger.

From the Back Cover The third volume of the series covers, in three Sections, emerging issues in the integrated management of main diseases of perennial and annual crops. The chapters provide basic data about the diseases concerned, in order to facilitate their detection and recognition either by field and laboratory inspection, discussing the main management possibilities experienced by farmers, plant pathologists and consultants, in different areas of the world. The first Section covers key diseases of stone fruit and apple trees, as well as the phytoplasma diseases of grapevine and fruit crops, the citrus diseases caused by *Phytophthora* spp., and the management of chestnut diseases, esca complex on grapevine and *Rosellinia necatrix* root rot. In the second Section, on annual crops, a first chapter describes the use of simulation models for potato late blight management, followed by a review about the potentials of the decision support systems approach, with an example of integrated forecasting system for *Phytophthora infestans* on potato. Following chapters review the management of bacterial fruit-blotch on cucurbits, *Verticillium* wilt on tomato, *Sclerotinia* rot on carrot, and cotton and rice diseases. A further review describes biological and integrated means to control rust diseases. In the third, final Section, two innovating approaches to disease management are reviewed: DNA fingerprinting methods, for microbial pathogens diagnostics with potentials in taxonomy and plant protection, and the management of pests and diseases through the exploitation of endophytes and their metabolites, a new research field with interesting perspectives and benefits in IPM/IDM.