

Integrated management of diseases and insect pests of tree fruit

Edited by Professor Xiangming Xu and Dr Michelle Fountain
NIAB-EMR, UK



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New title information

Integrated management of diseases and insect pests of tree fruit

Edited by: Professor Xiangming Xu and Dr Michelle Fountain, NIAB-EMR, UK

Description:

This collection reviews advances in understanding key diseases and insect pests of tree fruit.

Chapters summarise current research on what causes key fungal diseases (apple scab, powdery mildew, apple replant diseases, apple canker and brown rot), bacterial and viral diseases (fire blight, brown spot, apple mosaic virus and plum pox).

The book discusses integrated fruit disease management techniques such as surveillance, breeding disease-resistant varieties, improved fungicide application as well as the use of biocontrol agents. Other chapters review the ecology of major insect pests (aphids, tortricid moths, mites, mirids, fruit flies and apple maggot flies). Chapters also assess ways of improving integrated pest management (IPM) techniques for tree fruit, from monitoring and forecasting to agronomic practices and methods of biological control.

Key features:

- Comprehensive review of current research on the causes of major fungal, bacterial and viral diseases of tree fruit
- Summarises current understanding of the ecology of key insect pests of tree fruit
- Assesses ways of improving integrated disease and pest management, with a particular focus on biological control

Audience:

Researchers in IPM in horticultural science departments, entomologists, plant pathologists, companies involved in pesticides and crop pest management, government agencies monitoring and regulating pest management in horticulture.

Editors' details:

Professor Xiangming Xu is Head of the Department of Pest and Pathogen Ecology at the world-famous NIAB-EMR (East Malling Research). Founded over 100 years ago, East Malling has long been a global pioneer in horticultural research. Professor Xu has an global reputation in fruit fungal pathogens research.

Dr Michelle Fountain is Deputy Head of the Department of Pest and Pathogen Ecology at the world-famous NIAB-EMR (East Malling Research). Founded over 100 years ago, East Malling has long been a global pioneer in horticultural research. Dr Fountain is an internationally-known expert on fruit insect pests and their management.

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