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KEY=AND - FARLEY KALEIGH

GENERAL CONCEPTS IN INTEGRATED PEST AND DISEASE MANAGEMENT

Springer Science & Business Media *This, the first volume of the 'Integrated Management of Plant Pests and Diseases' book series, presents general concepts on integrated pest and disease management. Section one includes chapters on infection models, resurgence and replacement, plant disease epidemiology and effects of climate change in tropical environments. The second section includes remote sensing and information technology. Finally, the third section covers molecular aspects of the subject.*

CONCEPTS IN INTEGRATED PEST MANAGEMENT

Pearson College Division *This book presents readers with the basic principles of integrated pest management as they apply to plant pathogens, weeds, nematodes, mollusks, arthropods, and vertebrates. It reinforces the wisdom and soundness of the Integrated Pest Management (IPM) approach to crop protection, which attempts to limit the detrimental effects of pests in ways that are environmentally, economically, and socially acceptable. Includes diagrams and photographs as well as case histories and practical examples. Looks at the historical development of pest management, as well as IPM in the future. For pest management consultants and advisors, environmental issues specialists, gardeners, and public affairs activists.*

INTEGRATED PEST MANAGEMENT

CURRENT CONCEPTS AND ECOLOGICAL PERSPECTIVE

Academic Press *Integrated Pest Management: Current Concepts and Ecological Perspective* presents an overview of alternative measures to traditional pest management practices using biological control and biotechnology. The removal of some highly effective broad-spectrum chemicals, caused by concerns over environmental health and public safety, has resulted in the development of alternative, reduced risk crop protection products. These products, less toxic to the environment and easily integrated into biological control systems, target specific life stages or pest species. Predation — recognized as a suitable, long-term strategy — effectively suppresses pests in biotechnological control systems. *Integrated Pest Management* covers these topics and more. It explores the current ecological approaches in alternative solutions, such as biological control agents, parasites and predators, pathogenic microorganisms, pheromones and natural products as well as ecological approaches for managing invasive pests, rats, suppression of weeds, safety of pollinators, role of taxonomy and remote sensing in IPM and future projections of IPM. This book is a useful resource to entomologists, agronomists, horticulturists, and environmental scientists. Fills a gap in the literature by providing critical analysis of different management strategies that have a bearing on agriculture, sustainability and environmental protection Synthesizes research and practice on integrated pest management Emphasizes an overview of management strategies, with critical evaluation of each in the larger context of ecologically based pest management

INTEGRATED PEST MANAGEMENT

VOLUME 1: INNOVATION-DEVELOPMENT PROCESS

Springer Science & Business Media The book 'Silent Spring' written by Rachel Carson in 1962, is considered the landmark in changing the attitude of the scientists and the general public regarding the complete reliance on the synthetic pesticides for controlling the ravages caused by the pests in agriculture crops. For about ve decades, the Integrated Pest Management (IPM) is the accepted strategy for managing crop pests. IPM was practiced in Canet~ e Valley, Peru in 1950s, even before the term IPM was coined. *Integrated Pest management: Innovation-Development Process, Volume 1*, focuses on the recognition of the dysfunctional consequences of the pesticide use in agriculture, through researchanddevelopmentoftheIntegratedPest Managementinnovations. Thebook aims to update the information on the global scenario of IPM with respect to the use of pesticides, its dysfunctional consequences, and the concepts and advancements made in IPM systems. This book is intended as a text as well as reference material for use in teaching the advancements made in IPM. The book provides an interdisciplinary perspective of IPM by the forty-three experts from the eld of entomology, plant pathology, plant breeding, plant physiology, biochemistry, and extension education. The introductory chapter (Chapter 1) gives an overview of IPM

initiatives in the developed and developing countries from Asia, Africa, Australia, Europe, Latin America and North America. IPM concepts, opportunities and challenges are discussed in Chapter 2.

INTEGRATED PEST MANAGEMENT

CONCEPTS, TACTICS, STRATEGIES AND CASE STUDIES

Cambridge University Press This textbook presents theory and concepts in integrated pest management, complemented by two award-winning websites covering more practical aspects.

INTEGRATED PEST AND DISEASE MANAGEMENT IN GREENHOUSE CROPS

Springer Science & Business Media The International Centre for Advanced Mediterranean Agronomic Studies (CIHEAM), established in 1962, is an intergovernmental organization of 13 countries: Albania, Algeria, Egypt, France, Greece, Italy, Lebanon, Malta, Morocco, Portugal, Spain, Tunisia and Turkey. Four institutes (Bari, Italy; Chania, Greece; Montpellier, France; and Zaragoza, Spain) provide postgraduate education at the Master of Science level. CIHEAM promotes research networks on Mediterranean agricultural priorities, supports the organization of specialized education in member countries, holds seminars and workshops bringing together technologists and scientists involved in Mediterranean agriculture and regularly produces diverse publications including the series *Options Méditerranéennes*. Through these activities, CIHEAM promotes North/South dialogue and international co-operation for agricultural development in the Mediterranean region. Over the past decade, the Mediterranean Agronomic Institute of Zaragoza has developed a number of training and research-supporting activities in the field of agroecology and sustainability of agricultural production systems. Some of these activities have been concerned with the rational use of pesticides and more particularly with the implementation of integrated control systems in order to gain in efficacy and decrease both the environmental impact and the negative repercussions for the commercialization of agricultural products.

INTEGRATED PEST MANAGEMENT

Springer Science & Business Media The past decade is probably unparalleled as a period of dynamic changes in the crop protection sciences-entomology, plant pathology, and weed science. These changes have been stimulated by the broad-based concern for a quality environment, by the hazard of intensified pest damage to our food and fiber production systems, by the inadequacies and spiraling costs of conventional crop protection programs, by the toxicological hazards of unwise pesticide usage, and by the negative interactions of independent and often narrowly based crop protection practices. During this period, the return to ecological approaches in crop protection was widely accepted, first within entomology and ultimately within the other crop protection and related disciplines. Integrated pest management is fast becoming accepted as the rubric describing a crop protection

system that integrates methodologies across all crop protection disciplines in a fashion that is compatible with the crop production system. Much has been written and spoken about "integrated control" and "pest management," but to date no treatise has been devoted to the concept of "integrated pest management" in the broadened context as described above. Most of the manuscripts in this volume were developed from papers presented in a symposium at the annual meeting of the American Association for the Advancement of Science held in San Francisco in February, 1974. In arranging that symposium, the editors involved plant pathologists, entomologists, and weed scientists.

ECOLOGICALLY BASED INTEGRATED PEST MANAGEMENT

CABI This book, intended for all those involved in studying entomology, crop protection and pest management, has 18 review chapters on topics ranging from the ecological effects of chemical control practices to the ecology of predator-prey and parasitoid-host systems.

PLANT PATHOLOGY CONCEPTS AND LABORATORY EXERCISES, SECOND EDITION

CRC Press Revised and updated with new concepts, case studies, and laboratory exercises, *Plant Pathology Concepts and Laboratory Exercises, Second Edition* supplies highly detailed and accurate information in a well-organized and accessible format. New additions to the second edition include five new topic and exercise chapters on soilborne pathogens, molecular tools, biocontrol, and plant-fungal interactions, information on *in vitro* pathology, an appendix on plant pathology careers, and how to use and care for the microscope. An accompanying cd-rom contains figures from the text as well as supplemental full-color photos and PowerPoint slides. Unique Learning Tools Retaining the informal style of the previous edition, this volume begins each topic with a concept box to highlight important ideas. Several laboratory exercises support each topic and cater to a wide range of skill sets from basic to complex. Procedure boxes for the experimental exercises give detailed outlines and comments on the experiments, step by step instruction, anticipated results, and thought provoking questions. Case studies of specific diseases and processes are presented as a bulleted list supplying essential information at a glance. Comprehensive Coverage Divided into six primary parts, this valuable reference introduces basic concepts of plant pathology with historical perspectives, fundamental ideas of disease, and disease relationships with the environment. It details various disease-causing organisms including viruses, prokaryotic organisms, plant parasitic nematodes, fungi, plant parasitic seed plants, and other biotic and abiotic diseases. Exploring various plant-pathogen interactions including treatments of molecular attack strategies, extracellular enzymes, host defenses, and disruption of plant function, the book presents the basic ideas of epidemiology, control strategies, and disease diagnosis.

CROP LOSS ASSESSMENT AND PEST MANAGEMENT

Amer Phytopathological Society Rationale and concepts of crop loss assessment

for improving pest management and crop protection. Measurement of disease and pathogens. Measurement of insect pest populations and injury. Modeling of crop growth and yield for loss assessment. Disease progress curves, their mathematical description and analysis to formulate predictors for loss equations. Sampling theory and protocol for insects. Methods of field data collection and recording in experiments and surveys. Generating the database for disease-loss modeling. Methods of generating different levels of disease epidemics in loss experiments. Methods of studying the relation between different insect population levels, damage and yield in experiments and surveys. Quantifying the relationship between disease intensity and yield loss. Quantifying the relationship between insect populations, damage, yield and economic thresholds. Empirical models for predicting yield loss caused by a single disease. Empirical models for predicting yield loss caused by one type of insect: the stem borers. The use of principal components analysis and cluster analysis in crop loss assessment. A mechanistic approach to yield loss assessment based on crop physiology. The systems approach to pest management. The concept of thresholds: warning, action and damage thresholds. The role of predictive systems in disease management. Economics of integrated pest control. Analysis of decision making in pest management. Pest surveillance systems in the USA - a case study using the Michigan State crop monitoring system (CCMS). Crop loss assessment in a practical integrated pest control program for tropical Asian rice. A computer-based decision aid for managing bean rust. The siratac system for cotton pest management in Australia.

SEED-BORNE DISEASES OF AGRICULTURAL CROPS: DETECTION, DIAGNOSIS & MANAGEMENT

Springer Nature *The global population is increasing rapidly, and feeding the ever-increasing population poses a serious challenge for agriculturalists around the world. Seed is a basic and critical input in agriculture to ensure global food security. Roughly 90 percent of the crops grown all over the world are propagated by seed. However, seed can also harbour and spread pathogens, e.g. fungi, bacteria, nematodes, viruses etc., which cause devastating diseases. Seed-borne pathogens represent a major threat to crop establishment and yield. Hence, timely detection and diagnosis is a prerequisite for their effective management. The book "Seed-Borne Diseases of Agricultural Crops: Detection, Diagnosis & Management" addresses key issues related to seed-borne/transmitted diseases in various agricultural crops. Divided into 30 chapters, it offers a comprehensive compilation of papers concerning: the history of seed pathology, importance of seed-borne diseases, seed-borne diseases and quarantine, seed health testing and certification, detection and diagnosis of seed-borne diseases and their phytopathogens, host-parasite interactions during development of seed-borne diseases, diversity of seed-borne pathogens, seed-borne diseases in major agricultural crops, non-parasitic seed disorders, mechanisms of seed transmission and seed infection, storage fungi and mycotoxins, impact of seed-borne diseases on human and animal health, and management options for seed-borne diseases. We wish to thank all of the eminent researchers who contributed valuable chapters to our book, which will be immensely*

useful for students, researchers, academics, and all those involved in various agro-industries.

DISEASE IN WILD ANIMALS

INVESTIGATION AND MANAGEMENT

Springer Science & Business Media Gary Wobeser's successful book from 1994 has been completely updated and enlarged in a new second edition. An in-depth overview of the available techniques for the investigation and management of disease in free-ranging animals is provided. The subjects are illustrated with examples drawn from around the world, with emphasis on the special requirements involved in working with wild animals. The book draws on the author's training as a wildlife biologist.

TECHNOLOGICAL INNOVATIONS IN INTEGRATED PEST MANAGEMENT BIORATIONAL AND ECOLOGICAL PERSPECTIVE

Scientific Publishers Human population is growing rapidly, disproportionate to food supply, which necessitate production of more volume of food in the near future. The reliance on insecticides for quick and dramatic results was not totally free from adverse effects. This book intends to fill the gap by providing a critical analysis of different management strategies that have a bearing on agriculture, sustainability, and environmental protection. This book emphasizes the management strategies with evaluation of each strategy in the bigger picture of ecologically driven pest management. This book includes 24 chapters, which cover ecological and biorational basis of pest management, integrated pest and disease management, crop breeding for resistance, use of entomopathogenic nematodes and other agents, remote sensing, biosecurity issues, risk to biodiversity by exotic species, new and emerging pests of horticultural crops, saffron and stored grains, the role of extension technologies in dissemination of IPM and, future challenges and strategies. The book is aimed to serve as reference book for teachers, researchers, extension officers, and policy makers associated with IPM. This book can also be used as supplementary reading material in undergraduate and postgraduate courses. This book provides a multidisciplinary IPM perspective to entomologists, plant pathologists, extension educationists, anthropologist and economists.

PEST MANAGEMENT IN SOYBEAN

Springer Science & Business Media This book is the third in a series of volumes on major tropical and sub-tropical crops. These books aim to review the current state of the art in management of the total spectrum of pests and diseases which affect these crops in each major growing area using a multi-disciplinary approach. Soybean is economically the most important legume in the world. It is nutritious and easily digested, and is one of the richest and cheapest sources of protein. It is currently vital for the sustenance of many people and it will play an integral role in any future attempts to relieve world hunger. Soybean seed contains about 17% of oil and about 63% of meal, half of which is protein. Modern research has developed a variety of

uses for soybean oil. It is processed into margarine, shortening, mayonnaise, salad creams and vegetarian cheeses. Industrially it is used in resins, plastics, paints, adhesives, fertilisers, sizing for cloth, linoleum backing, fire extinguishing materials, printing inks and a variety of other products. Soybean meal is a high-protein meat substitute and is used in the developed countries in many processed foods, including baby foods, but mainly as a feed for livestock. Soybean (*Glycine max*), which evolved from *Glycine ussuriensis*, a wild legume native to northern China, has been known and used in China since the eleventh century B.C. It was introduced into Europe in the eighteenth century and into the United States in 1804 as an ornamental garden plant in Philadelphia.

BREEDING FOR DURABLE DISEASE AND PEST RESISTANCE

Food & Agriculture Org.

PEST AND VECTOR MANAGEMENT IN THE TROPICS

WITH PARTICULAR REFERENCE TO INSECTS, TICKS, MITES, AND SNAILS

Addison-Wesley Longman Limited *Overview of pest and vector problems in the tropics; Concepts of pests and vectors and their management; Role of insecticides in integrated pest and vector management; Sampling methods for pest and vector management; Quantitative procedures after sampling; Management of plant pest; Management of vectors; Relationships between development programmes and health; Socio-economic considerations in the management of tropical pests and disease vectors; Training and policies of pest and vector management.*

EMERGING TECHNOLOGIES FOR INTEGRATED PEST MANAGEMENT

CONCEPTS, RESEARCH, AND IMPLEMENTATION

Amer Phytopathological Society *This new book examines key scientific and technological advances within the last decade that have the potential to dramatically improve the practice of integrated pest management (IPM). Entomologists, pest management consultants, plant pathologists, weed scientists, agriculture chemical industry professionals, agricultural regulatory personnel, commodity association professionals, educators and students will find Emerging Technologies for Integrated Pest Management: Concepts, Research and Implementation a useful resource.*

BIBLIOGRAPHY OF AGRICULTURE

INTEGRATED PEST AND DISEASE MANAGEMENT

APH Publishing *The present book consists of 30 reviews on important pest and diseases of cash, cereals, oilseed, vegetables, fodders, fruits and pulses etc. Most of these articles have been prepared by authorities in their receptive areas. There is worldwide swing to the use of ecologically safe, environment friendly methods of protecting crops from pests and pathogens.*

PESTS, WEEDS AND DISEASES IN AGRICULTURAL CROP AND ANIMAL HUSBANDRY PRODUCTION

BoD - Books on Demand *This book highlights some of the most recent research with respect to emerging pest challenges in agricultural crop and animal husbandry production: analytical methods for glyphosate detection in foods, biopesticides and essential oils, environmental safety in pest control, herbicide and glyphosate resistance, herbicides and weed management, integrated pest management, mass spectrometry for insect physiology studies, pheromones and chemical communication, pasteurellosis outbreaks, and tick identification and management.*

PLANT DISEASE MANAGEMENT STRATEGIES FOR SUSTAINABLE AGRICULTURE THROUGH TRADITIONAL AND MODERN APPROACHES

Springer Nature *This book provides an account of the classical and recent trends in plant sciences, which have contributed for disease management strategies in plants for sustainable agriculture. Advancements in the disciplines of biological sciences like biotechnology, microbiology, bioinformatics as well as information and communication technology etc has given the new dimensions for the development of new plant disease management strategies. By keeping this perspective in view, the editors collected and compiled the useful, practical and recent information regarding plant disease management from a diverse group of authors from different countries associated with well-reputed scientific, teaching and research organizations with the objective to update and equip the researchers with comprehensive and latest knowledge of plant disease management. This book is based on the knowledge of traditional and modern approaches for plant disease management. It has 15 chapters, each chapter describing the pillar strategies, which may be the possible way for crop protection from diseases. This effort deals with the history and recent trends in plant disease control, plant genetics and physiology in disease prognosis, conventional plant breeding program for disease resistance, synthetic chemicals: major component of plant disease management, biological antagonism: expected safe and sustainable way to manage plant diseases, soil microbes and plant health, conventional and modern technologies for the management of post-harvest diseases, nanobiotechnology, an innovative plant disease management approach, transgenic approaches in plants: strategic control for disease management, exploiting RNAi mechanism in plants for disease resistance, genome editing technologies for resistance against phytopathogens: principles, applications and future prospects, plant health clinics in Pakistan: operations and prospects, precision agriculture technologies for management of plant disease, quarantine and regulations and development and implementation of IDM program for annual and perennial crops.*

ADVANCES IN DISEASE VECTOR RESEARCH

Springer Science & Business Media *Entomology, plant pathology and virology are a few of the disciplines covered by this well-reviewed series. It also covers the spectrum of vectors from mosquitos and leafhoppers to nematodes, and pathogens*

from viruses to mycoplasmas to protozoa. Articles deal with the emerging science of vector ecology, and consider both biotic and abiotic environmental influences on disease transmission. As a form to present current thinking in this field, the series is an important resource for researchers and students involved in understanding and overcoming the many vector-borne diseases of plants, animals, and humans.

CROP PROTECTION

FROM AGROCHEMISTRY TO AGROECOLOGY

CRC Press *This book is a synthesis and a celebration of a large body of agro-ecological research carried out on the management of the pests of cotton, one of the worlds major crops and one which has historically been a very heavy consumer of inputs of pesticides. It demonstrates how agro-ecological approaches to pest management are at last approaching the mainstream, with an increasing recognition that farmland delivers a wide range of ecosystem services (natures goods and services), including but certainly not solely comprising the production of food.*

INTEGRATING NEW TECHNOLOGIES FOR STRIGA CONTROL

TOWARDS ENDING THE WITCH-HUNT

World Scientific *Witchweeds (Striga species) decimate agriculture in much of Africa and parts of Asia, attacking the major cereal grains and legumes, and halving the already very low yields of subsistence farmers. Several years of research have provided promising technologies, based on the fundamental biology of the parasite?host associations, for dealing with this scourge. However, there is an apparent realization that these technologies will fail because highly successful weeds such as Striga evolve resistance to all types of controls unless proven methods are integrated with each other for a more sustainable solution. Integration is often an anathema to basic scientists who typically deal with single variables and solutions. However, key leaders in the development of the new knowledge-based control strategies, already in the field and under development, recently joined forces to develop strategies and projects in order to integrate the technologies in a symposium in Ethiopia in November 2006. The encouraging results are described in this peer-reviewed book, authored by leaders in the field who have been supplying the basic biology, genetics, biochemistry, and molecular information that have offered insights and generated technologies in how to deal with Striga.*

CORONADO NATIONAL FOREST (N.F.), PINALENO MOUNTAINS, PROPOSED MT.GRAHAM ASTROPHYSICAL AREA

ENVIRONMENTAL IMPACT STATEMENT

NATURAL RESOURCES MANAGEMENT: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

IGI Global *The perseverance of our natural environment has become a critical objective of environmental scientists, business owners, and citizens alike. Because we depend on natural resources to survive, uncovering methods for preserving and maintaining these resources has become a focal point to ensure a high quality of life for future generations. Natural Resources Management: Concepts, Methodologies, Tools, and Applications emphasizes the importance of land, soil, water, foliage, and wildlife conservation efforts and management. Focusing on sustainability solutions and methods for preserving the natural environment, this critical multi-volume research work is a comprehensive resource for environmental conservationists, policymakers, researchers, and graduate-level students interested in identifying key research in the field of natural resource preservation and management.*

FOREST ENTOMOLOGY

ECOLOGY AND MANAGEMENT

John Wiley & Sons *This text considers forest insects occurring in forest ecosystems, specialized forestry settings, and urban forests, with an approach and coverage that make it suitable for use in both undergraduate and graduate courses in forest entomology and forest protection. Early chapters introduce entomology, middle chapters provide the first comprehensive treatment of the principles of Integrated Pest Management (IPM) of forest insects, and later chapters discuss the pest insects according to their feeding group.*

PRINCIPLES OF PLANT PATHOLOGY

Allied Publishers

ENVIRONMENTAL BEST MANAGEMENT PRACTICES FOR AQUACULTURE

John Wiley & Sons *Published in Cooperation with THE UNITED STATES AQUACULTURE SOCIETY* *The rapid growth of aquaculture worldwide and domestically has caused concerns over social and environmental impacts. Environmental advocacy groups and government regulatory agencies have called for better management to address potentially negative impacts and assure sustainable aquaculture development. Best Management Practices (BMPs) combine sound science, common sense, economics, and site-specific management to mitigate or prevent adverse environmental impacts. Environmental Best Management Practices for Aquaculture will provide technical guidance to improve the environmental performance of aquaculture. This book will be the only comprehensive guide to BMPs for mitigation of environmental impacts of aquaculture in the United States. The book addresses development and implementation of BMPs, BMPs for specific aquaculture production systems, and the economics of implementing best management practices. Written by internationally recognized experts in environmental management and aquaculture from academia, government, and non-governmental organizations, this book will be a valuable reference for innovative producers, policy makers, regulators, research scientists, and students.*

NEW ZEALAND JOURNAL OF AGRICULTURAL RESEARCH

CROP DISEASES AND THEIR MANAGEMENT

PHI Learning Pvt. Ltd. *This comprehensive and upto date text is designed to provide information to the readers on all important aspects of plant pathology in a single volume. The information on modern areas like Disease diagnosis, Disease forecasting, Biological control, Epidemiology and Biotechnology in disease resistance and safe use of pesticides have been covered, giving most recent concepts. The text is illustrated with flow diagrams, line diagrams, photographs and tables for quick and easy understanding of the subject.*

HEMP DISEASES AND PESTS

MANAGEMENT AND BIOLOGICAL CONTROL : AN ADVANCED TREATISE

CABI *Hemp is enjoying a worldwide resurgence. This book combines a useful review of the hemp pest and disease literature published over the past 50 years, with up-to-date information on modern biological control techniques. Each pest and disease organism is presented in the same format, covering range and economic impact, symptoms, life history, diagnosis, and both new and old techniques for biological control and chemical control. Easy to use keys are included for rapid identification of the most common pests. Introductory chapters describe the general principles of plant protection, requirements for healthy plant growth, and taxonomy of parasites and pathogens.*

CALIFORNIA MASTER GARDENER HANDBOOK, 2ND EDITION

UCANR Publications *Since it was first published in 2002, the California Master Gardener Handbook has been the definitive guide to best practices and advice for gardeners throughout the West. Now the much-anticipated 2nd Edition to the Handbook is here—completely redesigned, with updated tables, graphics, and color photos throughout. Whether you're a beginner double digging your first bed or a University of California Master Gardener, this handbook will be your go-to source for the practical, science-based information you need to sustainably maintain your landscape and garden and become an effective problem solver. Chapters cover soil, fertilizer, and water management, plant propagation, plant physiology; weeds and pests; home vegetable gardening; specific garden crops including grapes, berries temperate fruits and nuts, citrus, and avocados. Also included is information on lawns, woody landscape plants, and landscape design. New to the 2nd Edition is information on invasive plants and principles of designing and maintaining landscapes for fire protection. Inside are updates to the technical information found in each chapter, reorganization of information for better ease of use, and new content on important emerging topics. Useful conversions for many units of measure found in the Handbook or needed in caring for gardens and landscapes are located in Appendix A. A glossary of important technical terms used and an extensive index round out the book.*

INTEGRATED PEST MANAGEMENT FOR DEVELOPING COUNTRIES

A SYSTEMIC OVERVIEW

Nova Publishers *Pests are defined purely from anthropocentric perspective. An organism is not considered a pest until its activities and life processes interfere with human health, convenience, comfort or profits. The importance of health education in the control of vector-borne diseases cannot be overstated. This should particularly be targeted at rural communities where the scourges of these diseases are most pronounced. With adequate commitment by the government at the federal, state and local levels as well as from private sectors, considerable success could be achieved in the battle against pests. This book represents an excellent addition to the literature on Integrated Pest Management (IPM). A historical overview traces the origins and concepts of pest organisms, their classification and general characteristics and the basic terminologies are given. The philosophy and goal of IPM and specific examples of chemical, cultural, biological, physical and mechanical approaches to IPM are discussed. The book is enriched with accounts of IPM practices and progression in the developing countries and the problems and prospects of implementation and the future of IPM highlighted. Also included is an interesting account of medical important arthropods and their management. A rich bibliography accompanies every chapter.*

PEST MANAGEMENT STRATEGIES

ORNAMENTAL GEOPHYTES

FROM BASIC SCIENCE TO SUSTAINABLE PRODUCTION

CRC Press *Although a great deal of research on ornamental geophytes has been conducted since the beginning of the 1990s, current information has not been comprehensively presented to researchers and horticulturalists. Covering the latest advances in geophytes science, Ornamental Geophytes: From Basic Science to Sustainable Production provides up-to-date reviews on geophyte taxonomy, physiology, genetics, production, plant protection, and postharvest biology. Novel approaches to environmentally-friendly, sustainable production and integrated management have stimulated new research directions, and innovative biochemical and molecular methods have opened new avenues in taxonomy and breeding. In addition to the issues historically associated with traditionally growing countries, the book reviews the development of new production centers in Africa, Asia, and South America. In 20 chapters, this book reflects three main trends in plant science and horticulture: A demand for sustainable and environmentally friendly production Widespread employment of new molecular technologies The globalization of the production and marketing chains Thoroughly modern and in tune with the needs and methods of the geophytes industry, Ornamental Geophytes: From Basic Science to Sustainable Production will benefit not only researchers who have been engaged for years but also new researchers and students who must meet and challenge the existing dogmas. In addition, the information contained in this book is vital to*

bringing the value of flower bulbs to the worldwide consumers who are the most important and last links in the chain of utilization and profitability of all ornamental products.

PEST MANAGEMENT STRATEGIES IN CROP PROTECTION

BIOLOGICAL CONTROL IN PLANT PROTECTION

A COLOUR HANDBOOK, SECOND EDITION

CRC Press *There has been a large increase in the commercial use of integrated crop/pest management methods for pest and disease control on a wide range of crops throughout the world since the first edition of this book. The completely revised second edition of the bestselling Biological Control in Plant Protection: A Color Handbook continues the objective of providing a handbook with profiles and full-color photographs of as many examples of biological control organisms from as wide a global area as possible. It is designed to help readers anticipate and recognize specific problems of pest management and then resolve them using the natural enemies of pests—parasites, predators, and pathogens. The authors first describe the impact of predator-prey relationships on host plant species in arable, orchard, and protected environments. The main sections of the book include profiles of pests, beneficial arthropods (insects and mites), and beneficial pathogens (bacteria, fungi, viruses, and nematodes), featuring a tabular pest identification guide. Descriptions of biocontrol organisms are divided into four sections: species characteristics, lifecycle, crop/pest associations, and influences of growing practices. The text is illustrated throughout with color photographs of the highest quality. This revised edition helps readers more fully understand the concepts and practice of biological control and integrated pest management. All chapters have been updated and expanded, and more than 300 new photographs have been added. The second edition covers new beneficial organisms and pest profiles, and it includes a new chapter on the practical aspects and application of biological control. It also contains a new final chapter that puts biological control in perspective, discussing interactions that occur when using biocontrol for population management as well as some of the possible mechanisms of biocontrol.*

CROPPING SYSTEMS

TRENDS AND ADVANCES

CRC Press *Learn the fundamentals as well as in-depth details of agricultural cropping systems from around the globe! Cropping Systems: Trends and Advances is a comprehensive review of past and present research efforts in North America and other parts of the world. It brings together biological, economic, sociological, and technical aspects of cropping systems in a single source to provide a reference unlike any other on the subject that is available today. This valuable book also points to future directions that cropping systems research needs to take in order to increase sustainable agriculture and feed the growing world population. Charts, tables, and illustrations make the information easy to access and understand. An*

ideal textbook for graduate and undergraduate courses in agronomy as well as a comprehensive reference for professionals involved in cropping systems research, Cropping Systems: Trends and Advances is a book you'll refer to again and again. Topics covered in this well-referenced and thoughtfully indexed book include: emerging trends in cropping systems research designing resource-efficient cropping systems soil quality and fertility tillage root dynamics water quality concerns nitrogen use efficiency precision agriculture agricultural biotechnology weed biology and management integrated pest management the important role that cover crops can play key indicators for assessing nitrogen use efficiency in cereal-based agroecosystems the implications of elevated carbon dioxide-induced changes in agroecosystem productivity and a great deal more!

IPM AND BIOLOGICAL CONTROL OF PLANT PESTS

DIANE Publishing *Contains 289 citations on topics of biological control of plant pests, management, alternatives, etc. Most citations have abstracts. Author and subject indices.*