# ECOLOGICAL ENGINEERING FOR PEST MANAGEMENT

Advances in Habitat Manipulation for Arthropods



Geoff M Gurr, Steve D Wratten and Miguel A Altieri (Editors)

P. Parvatha Reddy

**Ecological Engineering for Pest Management** Geoff M Gurr, Steve D Wratten, Miguel A Altieri, 2004-08-03 Ecological engineering is about manipulating farm habitats making them less favourable for pests and more attractive to beneficial insects Though they have received far less research attention and funding ecological approaches may be safer and more sustainable than their controversial cousin genetic engineering This book brings together contributions from international workers leading the fast moving field of habitat manipulation reviewing the field and paving the way towards the development and application of new pest management approaches Chapters explore the frontiers of ecological engineering methods including molecular approaches high tech marking and remote sensing They also review the theoretical aspects of this field and how ecological engineering may interact with genetic engineering. The technologies presented offer opportunities to reduce crop losses to insects while reducing the use of pesticides and providing potentially valuable habitat for wildlife conservation With contributions from the USA UK Germany Switzerland Australia New Zealand Kenya and Israel this book provides comprehensive coverage of international progress towards sustainable pest management Engineering for Pest Management Steve D. Wratten, 2004 Agro-ecological Approaches to Pest Management for **Sustainable Agriculture** P. Parvatha Reddy, 2017-07-19 This book outlines a new paradigm Agro ecological Intensification of Crop Protection which reduces negative impacts on the environment and enhances the provision of ecosystem services It discusses the use of ecologically based management strategies to increase the sustainability of agricultural production while reducing off site consequences highlighting the underlying principles and outlining some of the key management practices and technologies required to implement agro ecological pest management It also comprehensively explores important topics like stimulo deterrent diversion strategy precision agriculture plant breeding nutrient management habitat management cultural approaches cultivar mixtures multiline cultivars crop rotation crop residue management crop diversity cover crops conservation tillage biofumigation agro forestry and addition of organic matter This timely book promotes the rapid implementation of this technology in farming community around the globe It is a valuable resource for the scientific community involved in teaching research and extension activities related to agro ecological pest management as well as policymakers and practicing farmers It can also be used for teaching post graduate courses **Ecologically Based** Integrated Pest Management Opender Koul, Gerrit W. Cuperus, 2007 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 Biological Control Peter G. Mason, 2021-10 Biological Control Global Impacts Challenges and Future Directions of Pest Management provides a historical summary of organisms and main strategies used in biological control as well as the key challenges confronting biological control in the 21st century Biological control has been implemented for millennia initially practised by growers

moving beneficial species from one local area to another Today biological control has evolved into a formal science that provides ecosystem services to protect the environment and the resources used by humanity With contributions from dedicated scientists and practitioners from around the world this comprehensive book highlights important successes failures and challenges in biological control efforts It advocates that biological control must be viewed as a global endeavour and provides suggestions to move practices forward in a changing world Biological Control is an invaluable resource for conservation specialists pest management practitioners and those who research invasive species as well as students studying **Planthoppers** Kong Luen Heong, B. Hardy, 2009 pest management science Crop Protection Jean-Philippe Deguine, 2009-01-09 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 Rice Planthoppers Kong Luen Heong, Jiaan Cheng, Monina M. Escalada, 2014-10-23 The book discusses planthopper pests of rice These insects are one of the most destructive pests threatening food security around the world The historical development of the rice planthopper problem shows that they are secondary pests and single discipline control tactics or strategies were not able to manage them and instead caused frequent resurgences This book not only presents new approaches to this persistent problem but also new ecological methods new perspectives on the effect of pesticide marketing insights into developing resistant varieties and structural reforms in pest management Integrating biological ecological economic and sociological aspects it clearly presents the latest information on newly developed strategies for managing this pest Dr K L Heong is the principal scientist and insect ecologist at the International Rice Research Institute Philippines He has been researching rice planthoppers for more than 30 years Dr Heong is a fellow of the Third World Academy of Science and the Academy of Sciences Malaysia Professor Jia an Cheng is an insect ecologist who has been studying rice planthoppers for about 50 years He is a professor at Zhejiang Australian Journal of Agricultural Research University China Professor M M Escalada works at Visayas State University ,2004 Australian Journal of Experimental Agriculture, 2008 **Australian Journal of Soil Research** 2008, חחחח ,2005 **Proceedings of the International Symposium on Grape Production and Processing Pandurang G.** Adsule, Indu S. Sawant, S. D. Shikhamany, 2008 Non-crop Lands in Central Wisconsin Agroecosystems Margaret Virginia South African Journal of Plant and Soil ,2007 American Entomologist, 2005 Knight, 2008 Bulletin Organisation Internationale de Lutte Biologique Contre Les Animaux Et Les Plantes Nuisibles, Section Regionale Ouest Paléarctique ,2006 Book Review Index ,2006 Every 3rd issue is a quarterly cumulation The British National Bibliography Arthur James Wells, 2004 **European Journal of Entomology**, 2005

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