



Integrated **Pest Management**

Jamin Ali



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INTEGRATED PEST MANAGEMENT

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Preface

Currently, there is renewed attention to Integrated Pest Management (IPM) in response to steadily increasing pesticide use that results in pest control crises due to development of resistant pests and outbreaks of secondary pests. Another important factor that contributed to the development of IPM was increasing evidence and awareness of the cost to human health and the environment of intensive use of pesticides. IPM is a dynamic process that makes use of an ecological systems approach and encourages the user or producer to consider and use the full range of best pest control options available given economic, environment and social considerations. Keeping all these things in mind I briefly explained the principle of IPM, how it works, basic requirements, management approaches in this book. This book mainly focuses on the importance of IPM biological control and chemical control that include use of biological agents, use of pheromones and plant volatiles in pest management strategies. It also highlights the pest monitoring and timing of application to control the pest. I deeply acknowledge the enthusiastic motivation of my parents, collaborators, and friends without whose help this book would have only been a dream.

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About Author

Mr. Jamin Ali, Research Scholar at Keele University, UK, has done Master's in Zoology (Entomology) from Aligarh Muslim University, India. He is applied insect chemical ecologist whose expertise lies at the interface of ecology, biology and chemistry. His research focus on using insect and plant derived semiochemicals to develop novel tools for sustainable management of phytophagous insect pests in global agricultural environments. His general research interests focus on exploiting the chemical ecology of tritrophic interactions to ensure global agriculture system can support an increasing human population. He is also interested in developing data-driven approaches to inform integrated pest management decision in horticultural production systems.

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