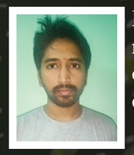
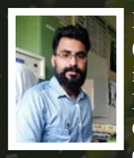
Authors:



Mr. Kovvuri Janakadatta Reddy, I have completed bachelor's degree in angrau,bapatla and master's degree in plant pathology at kerala agriculture university.i have published 5 book chapters,2 review articles, 2 popular articles ,attented numerous conferences and seminars . currently now I am pursuing PhD in plant pathology at kerala agriculture university, Thrissur.



Mr. Rupeshkumar Jagannath Choudhari, has completed his B.Sc. Agri from COA, Gadchiroli (MS) in 2015. M.Sc. (Agri) specialization in Plant Pathology from PGI, Dr. PDVK, Akola (MS) in 2017. Now perusing PhD in Plant Pathology (with fellow) Dr. PDKV, Akola. He has qualified ICAR-ASRB NET in Plant Pathology. He has worked as an asst. professor in KH Agri College Chamorshi (MS). He has published one book (Emerging Trends in Plant Pathology), 5 Book Chapters, 22 research paper & 2 review paper in national/International NASS rated journals, 23 English and 75 Marathi Popular articles in reputed magazines. He is having life membership of 5 professional societies. Mr. R. J. Choudhari got Yong Plant Pathologist award and other 3 awards. He has contributed to a worked in research project (ITRA) as a JRA.

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Principles of Integrated Pest and Disease Management

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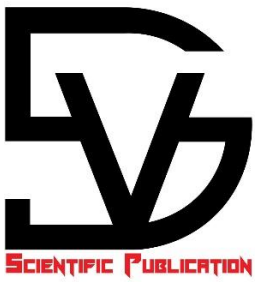

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PREFACE

In the ever-evolving world of agriculture, farmers and agricultural professionals face the constant challenge of protecting their crops from the devastating effects of pests and diseases. As the global population continues to grow, the demand for food production increases, making it imperative to find sustainable and effective ways to manage these threats. "Principles of Integrated Pest and Disease Management" aims to provide a comprehensive guide to the latest strategies and techniques in combating crop losses while promoting environmental stewardship.

This book is the result of years of research, practical experience, and collaboration among experts in the field of plant protection. It brings together a wealth of knowledge from various disciplines, including entomology, plant pathology, agronomy, and ecology, to present an integrated approach to pest and disease management. By understanding the complex interactions between crops, pests, diseases, and the environment, we can develop holistic strategies that minimize the reliance on chemical interventions and promote the health and resilience of agroecosystems. The chapters in this book cover a wide range of topics, from the fundamental principles of integrated pest management (IPM) and integrated disease management (IDM) to specific case studies and practical applications. Readers will gain insights into the biology and ecology of key pests and pathogens, the importance of monitoring and early detection, and the various tools and techniques available for prevention, suppression, and control. Special attention is given to the role of cultural practices, biological control agents, and the judicious use of pesticides within an integrated management framework.

In addition to providing a solid theoretical foundation, this book also emphasizes the practical aspects of implementing IPM and IDM programs in the field. It includes guidance on developing site-specific management plans, engaging stakeholders, and evaluating the effectiveness of interventions. The goal is to empower farmers, extension agents, and other agricultural professionals with the knowledge and skills needed to make informed decisions and adapt their management strategies to the unique challenges of their local contexts.

As we face the ongoing threats of climate change, biodiversity loss, and the emergence of new pests and diseases, the principles outlined in this book become increasingly relevant. By adopting an integrated approach to pest and disease management, we can enhance the resilience and sustainability of our agricultural systems, protect the livelihoods of farmers, and ensure a stable food supply for future generations. It is our hope that this book will serve as a valuable resource and inspire readers to embrace the principles of integrated pest and disease management in their own work and contribute to the advancement of this critical field.

Happy reading and happy gardening!

Authors.....

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