



Plant Disease: An Advanced Treatise: How Pathogens Induce Disease: 4

J. G. Horsefall, Ellis B. Cowling

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Plant Disease An Advanced Treatise, Volume IV: How Pathogens Induce Disease describes the mechanisms of induction of various types of plant dysfunction by parasites and pathogens. Comprised of 22 chapters, this volume focuses on the effects of major group of pathogens on plant, including fungi, bacteria, nematodes, mycoplasmas, rickettsia, insects, and parasitic seed plants.

This volume begins with a series of theoretical and analytical discussions on the evolution and energetics of pathogens, predisposition phenomena, multiple pathogen interactions, and the penetration and colonization of hosts by pathogens. Considerable chapters describe the unique features and special adaptations of each major group of pathogens. This text includes discussions on the special relationships the mycoplasmas and rickettsia have developed with insects and viruses; their effects on growth and differentiation of the plant hosts; and the origin and evolutionary development of these pathogens. This volume also describes what is known about plant disease induction in other plants with toxic chemicals and the role of toxic residues in plant refuse and in the “sickness” phenomenon. A chapter examines a series of iatrogenic diseases and the mechanisms by which they are induced. The concluding chapters deal with the effect of diseased plants and plant pathogens in livestock and human beings.

This volume is an invaluable source for plant pathologists, mycologists, advanced researches, and graduate students.

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