BOOK REVIEW


This volume is an expansion of a series of papers presented at the 2nd International Congress of Plant Pathology held in Minneapolis in September 1973. The papers summarize the achievements to date in the mathematical and computer analysis of plant disease epidemics, dealing consecutively with the scope of mathematical analysis and modeling, automatic data processing, multiple regression analysis, theoretical models and simulation models.

Kranz in his introduction and 1st chapter, discusses the philosophical basis for modeling and surveys the scope and role of mathematical analysis and modeling in disease epidemiology. Kranz's overview provides a useful schema for the study, analysis and modeling of any biological system. His discussion of the various models in the logistic family, and their transformations may prove helpful in our sister science. The book, which is relatively elementary from the mathematical standpoint, may also be useful to entomologists who are beginners at the modeling game, and who want a broad overview of the alternative approaches, and some of their strengths and weaknesses.

In general, I found this book readable and informative to those interested in the state of mathematical modeling in our sister science. The book, which is relatively elementary from the mathematical standpoint, may also be useful to entomologists who are beginners at the modeling game, and who want a broad overview of the alternative approaches, and some of their strengths and weaknesses.

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