



Parasitic and Infectious Diseases: Epidemiology and Ecology

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Parasitic and Infectious Diseases: Epidemiology and Ecology From Academic Press

There are at least two populations involved in any infectious disease process: the population of parasites that cause the disease and the population of hosts that are infected. **Parasitic and Infectious Diseases: Epidemiology and Ecology** focuses on the interface between these two populations. The various chapters demonstrate how combined field, experimental, and theoretical studies aid in our understanding of the dynamics of infectious disease processes and in formulating control strategies. Moving from the basics of mathematical modeling and epidemiological principles to case studies of human, livestock, and wild animal infections, the editors have assembled a book of tremendous value to researchers in ecology, parasitology, medical and veterinary sciences, infectious disease, epidemiology, and other related fields of study.

Key Features

- * Introduction of mathematical modeling for the novice
- * Case studies covering a spectrum of infections in humans, livestock, and wild animals
- * Integration of field, laboratory, and theoretical approaches
- * Development and illustration of key concepts in interactions between infectious agents and their host populations
- * Written and edited by internationally recognized leaders in the field

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Editorial Review

Review

"These chapters succeed in providing a clear exposition of the basic techniques of population modelling. In fact, they contain some of the clearest explanations and modelling of such redoubtable as the basic reproduction of R_0 , the negative binomial frequency distribution and its role in population biology, stability analysis and the search for model equilibria, that a novice can hope to encounter... I have no hesitation in recommending this book to all those desiring to understand the principles of population dynamics, and who wish to set about learning to write epidemiological models of infectious disease."

--PARASITOLOGY TODAY

From the Back Cover

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