An Introduction to Mathematical Epidemiology (Part 2)

This book provides an introduction to the field of mathematical epidemiology. The text is divided into two parts: Mathematical Methods in Population Biology and Epidemiology and Mathematical Approaches for Emerging and Reemerging Infectious Diseases: Models, Methods, and Theory. The first part of the book focuses on the mathematical methods and tools used in population biology and epidemiology, while the second part covers specific models and methods for the study of infectious diseases.

Mathematical Methods in Population Biology and Epidemiology

This section introduces the basic concepts and tools of mathematical epidemiology, including the mathematical description of population growth, the fundamental concepts of disease transmission, and the basic principles of mathematical modeling. It also covers the role of matrices in the study of population dynamics and the use of differential equations in modeling disease transmission.

Mathematical Approaches for Emerging and Reemerging Infectious Diseases: Models, Methods, and Theory

This section covers the use of mathematical models and methods for the study of emerging and reemerging infectious diseases. It includes chapters on the mathematical modeling of disease transmission, the role of contact networks in disease spread, and the use of mathematical methods to analyze and control infectious disease outbreaks.

Overall, this book provides a comprehensive introduction to the field of mathematical epidemiology, with a focus on the mathematical methods and tools used in population biology and epidemiology. It is an excellent resource for students and researchers interested in the mathematical modeling of infectious diseases.
An Introduction To Mathematical Epidemiology Texts In Applied Mathematics

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