Mathematical Models of Infectious Diseases and Social Issues

Part of the Advances in Medical Technologies and Clinical Practice Book Series

Nita H. Shah (Department of Mathematics, Gujarat University, Ahmedabad, India) and Mandeep Mittal (Department of Mathematics, Amity Institute of Applied Sciences, Amity University, Noida, India)

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Nita H. Shah and Mandeep Mittal

Description:

When deadly illness spreads through a population at a rapid pace, time may be of the essence in order to save lives. Using mathematics as a language to interpret assumptions concerning the biological and population mechanics, one can make predictions by analyzing actual epidemiological data using mathematical tests and results. Mathematical models can help us understand the right disease status and predict the effects of the disease on populations, which can help limit the spread and devastation of the illness.

Mathematical Models of Infectious Diseases and Social Issues is a collection of innovative research that examines the dynamics of diseases and their effect on populations. Featuring coverage of a broad range of topics including deterministic models, environmental pollution, and social issues, this book is ideally designed for diagnosticians, clinicians, healthcare providers, pharmacists, government health officials, policymakers, academicians, researchers, and students.
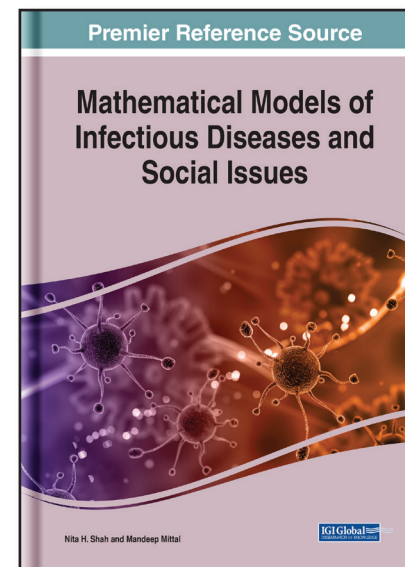
ISBN: 9781799837411   **Pages:** 300   **Copyright:** 2020   **Release Date:** June, 2020

Hardcover: $245.00   **E-Book: $245.00**   **Hardcover + E-Book:** **$295.00**

Topics Covered:

- Air Pollution
- Co-Infections
- Deterministic Models
- Disease Dynamics
- Disease Prediction
- Environmental Pollution
- HIV-HCV-HBV
- Population Mechanics
- Social Issues
- Vector-Borne Diseases
- Water-Borne Diseases

Subject: Medical, Healthcare, and Life Sciences

Classification: Edited Reference

Readership Level: Advanced-Academic Level (Research Recommended)

Research Suitable for: Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners

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