



Infectious Disease Modeling

By Xinzhi Liu

Springer-Verlag GmbH Mrz 2017, 2017. Buch. Condition: Neu. Neuware - This volume presents infectious diseases modeled mathematically, taking seasonality and changes in population behavior into account, using a switched and hybrid systems framework. The scope of coverage includes background on mathematical epidemiology, including classical formulations and results; a motivation for seasonal effects and changes in population behavior, an investigation into term-time forced epidemic models with switching parameters, and a detailed account of several different control strategies. The main goal is to study these models theoretically and to establish conditions under which eradication or persistence of the disease is guaranteed. In doing so, the long-term behavior of the models is determined through mathematical techniques from switched systems theory. Numerical simulations are also given to augment and illustrate the theoretical results and to help study the efficacy of the control schemes. 271 pp. Englisch.

DOWNLOAD



READ ONLINE
[7.91 MB]

Reviews

An exceptional pdf as well as the typeface utilized was interesting to see. I am quite late in start reading this one, but better then never. I am very happy to explain how this is actually the best pdf i actually have go through within my individual daily life and might be he greatest publication for possibly.

-- **Freddie Zulauf**

This type of pdf is every little thing and helped me searching forward and more. It can be writter in easy words and phrases and never hard to understand. You will not really feel monotony at anytime of your respective time (that's what catalogues are for about should you request me).

-- **Fern Bailey**