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Mathematical Tools For Understanding Infectious

Mathematical Tools for Understanding Infectious Disease Dynamics is a welcome addition to the current literature and will hopefully help to unify the many different views in the field."—Laura Matrajt, SIAM Review "The overtly pedagogical features of this text make it an outstanding choice for someone trying to learn the basic tools of the trade.

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Mathematical Tools for Understanding Infectious Disease Dynamics fully explains how to translate biological assumptions into mathematics to construct useful and consistent models, and how to use...

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Mathematical Tools for Understanding Infectious Disease Dynamics. O. Diekmann, H. Heesterbeek, and T. Britton (2012). Princeton: Princeton University Press. 502 pages, ISBN: 978-0-691-1-5539-5.

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Mathematical modeling is critical to our understanding of how infectious diseases spread at the individual and population levels. This book gives readers the necessary skills to correctly formulate and analyze mathematical models in infectious disease epidemiology, and is the first treatment of the subject to integrate deterministic and stochastic models and methods.

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Mathematical Tools for Understanding Infectious Disease Dynamics (Princeton Series in Theoretical and Computational Biology) 1st Edition. by Odo Diekmann (Author), Hans Heesterbeek (Author), Tom Britton (Author) & 0 more. ISBN-13: 978-0691155395. ISBN-10: 0691155399.

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CHAPTER 22 Mathematical Modeling of Infectious Diseases Dynamics M. Choisy,^{1,2} J.-F. Guégan,² and P. Rohani^{1,3} ¹Institute of Ecology, University of Georgia, Athens, USA ²Génétique et Evolution des Maladies Infectieuses UMR CNRS-IRD, Montpellier, France ³Center for Tropical and Emerging Global Diseases, University of Georgia, Athens, USA "As a matter of fact all epidemiology, concerned as it is ...

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Description; Chapters; Supplementary; The Institute for Mathematical Sciences at the National University of Singapore hosted a research program on Mathematical Modeling of Infectious Diseases: Dynamics and Control from 15 August to 9 October 2005. As part of the program, tutorials for graduate students and junior researchers were given by leading experts in the field.

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However, mathematical models are potent tools for understanding the transmission dynamics of an infectious viral disease. In other climes, there is no gainsaying to aver that the SEIR model seems the most reliable extension of the SIR models during this pandemic due to its plausibility in explaining heterogeneous changes in features, structures, containment and risk analysis of the virus transmission.

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Mathematical Tools for Understanding Infectious Disease Dynamics by O. Diekmann, H. Heesterbeek and T. Britton Princeton University Press, pp. 516, ISBN 978-0-691-15539-5 Philip D. O'Neill School of Mathematical Sciences, University of Nottingham, Nottingham NG7 2RD, UK

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