Spatial Deterministic Epidemics

Linda Rass
John Radcliffe

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Kristine K. Fowler

Spatial Deterministic Epidemics:

   Spatial Deterministic Epidemics Linda Rass,John Radcliffe,2003 Rass and Radcliffe draw together in one volume mathematical theory which until now has existed only in a large number of papers scattered over many journals They use rigorous analytic methods to determine the behavior of spatial deterministic models of certain multi type epidemic processes where infection is spread by means of contact distribution The results obtained include the existence of traveling wave solutions the asymptotic speed of propagation and the spatial final size For researchers and graduate students working in mathematical methods in biology Annotation c 2003 Book News Inc Portland OR booknews com   *Deterministic and Stochastic Discrete-time Epidemics with Spatial Considerations* Amy Marie Blackstock Burgin,1998   **Epidemic Models** Denis Mollison,1995-07-13 The problems of understanding and controlling disease present a range of mathematical challenges from broad theoretical issues to specific practical ones making epidemiology one of the most vibrant branches of applied ecology Progress in this field requires interdisciplinary collaboration leading researchers with a wide range of mathematical expertise and close involvement in applied fields across the social medical and biological sciences came together for a NATO Advanced Research Workshop marking the opening of a six month programme on Epidemic Models at the Newton Institute in Cambridge in 1993 This volume is a result of that collaboration and surveys the state of epidemic modelling at the time in relation to basic aims such as understanding prediction and evaluation and implementation of control strategies   **Encyclopedia of Epidemiologic Methods** Mitchell H. Gail,Jacques Benichou,2000-11-02 Featuring articles from the prestigious Encyclopedia of Biostatistics many of which have been revised and updated to include recent developments the Encyclopedia of Epidemiologic Methods also includes newly commissioned articles reflecting the latest thinking in Cancer Registries Birth Defect Registries Meta Analysis of Epidemiologic Studies Epidemiology Overview Sample Size Sex Ratio at Birth Software Design and Analysis Featuring contributions from leading experts in academia government and industry the Encyclopedia of Epidemiologic Methods has been designed to complement existing texts on the subject by providing further extensive up to date coverage of specialised topics and by introducing the reader to the research literature Offering a wealth of information in a single resource the Encyclopedia of Epidemiologic Methods Offers an excellent introduction to a vast array of specialised topics Includes in depth coverage of the statistical underpinnings of contemporary epidemiologic methods Provides concise definitions and introductions to numerous concepts found in the current literature Uses extensive cross references helping to facilitate further research and enabling the reader to locate definitions and related concepts In addition to featuring extensive articles in the areas of descriptive and analytic epidemiology the Encyclopedia also provides the reader with articles on case control design and offers substantial coverage of allied statistical methods   *Mathematics for Life Science and Medicine* Yasuhiro Takeuchi,Yoh Iwasa,Kazunori Sato,2007-01-25 Dynamical systems theory in mathematical biology has attracted much attention from many scientific directions The purpose of this

volume is to present and discuss the many rich properties of the dynamical systems that appear in life science and medicine The main topics include cancer treatment dynamics of paroxysmal tachycardia vector disease model epidemic diseases and metapopulations immune systems pathogen competition and coexistence and the evolution of virulence and the rapid evolution of viruses within a host Each chapter will serve to introduce students and scholars to the state of the art in an exciting area to present new results and to inspire future contributions to mathematical modeling in life science and medicine **mathematical population dynamics** Ovide Arino,2020-12-17 This book is an outcome of the Second International Conference on Mathematical Population Dynamics It is intended for mathematicians statisticians biologists and medical researchers who are interested in recent advances in analyzing changes in populations of genes cells and tumors

Using the Mathematics Literature Kristine K. Fowler,2004-05-25 This reference serves as a reader friendly guide to every basic tool and skill required in the mathematical library and helps mathematicians find resources in any format in the mathematics literature It lists a wide range of standard texts journals review articles newsgroups and Internet and database tools for every major subfield in mathematics and details methods of access to primary literature sources of new research applications results and techniques Using the Mathematics Literature is the most comprehensive and up to date resource on mathematics literature in both print and electronic formats presenting time saving strategies for retrieval of the latest information The Mathematical Theory of Epidemics Norman T. J. Bailey,1957 *Nonlinearity* ,2008 Limit Theorems for Some Stochastic Epidemic Models Håkan Andersson,1994 *Discrete and Continuous Dynamical Systems* ,2008

Branching Processes C.C. Heyde,1995-04-27 This volume presents the edited proceedings of the First World Congress on Branching Processes The contributions present new research and surveys of the current research activity in this field As a result all those undertaking research in the subject will find this a timely and high quality volume to have on their shelves

The Mathematical Theory of the Dynamics of Biological Populations II R. W. Hiorns,Dennis Cooke,1981

Vectors of Death Ann Felice Ramenofsky,1987 *Scientiae Mathematicae Japonicae* ,2008 *Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability* Jerzy Neyman,1972 **Lecture Notes in Pure and Applied Mathematics** ,1991 The Classification of the Finite Simple Groups: Part IV, The special odd case Daniel Gorenstein,Richard Lyons,Ronald Solomon,2005 The Classification of Quasithin Groups Michael Aschbacher,2004

Current Index to Statistics, Applications, Methods and Theory ,1998 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields

The Enigmatic Realm of **Spatial Deterministic Epidemics**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Spatial Deterministic Epidemics** a literary masterpiece penned by a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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Table of Contents Spatial Deterministic Epidemics

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