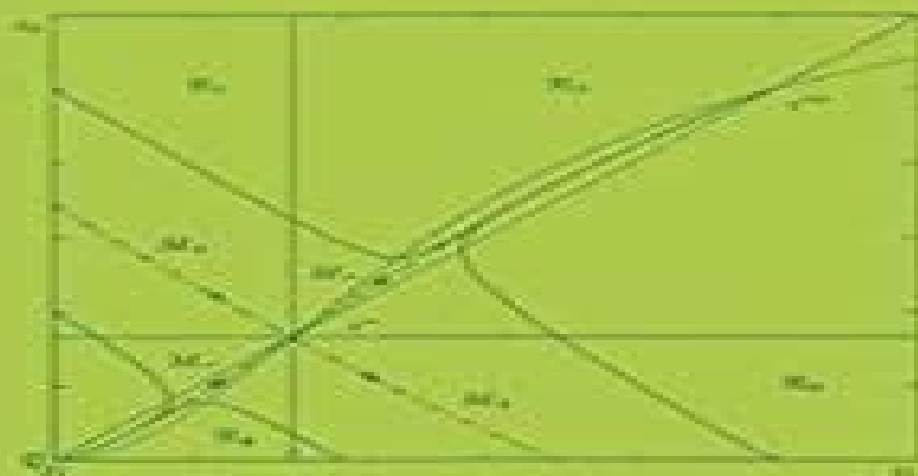


Vincenzo Capasso

Mathematical Structures of Epidemic Systems



Mathematical Structures Of Epidemic Systems Lecture Notes In Biomathematics

Vincenzo Capasso



Mathematical Structures Of Epidemic Systems Lecture Notes In Biomathematics:

Mathematical Structures of Epidemic Systems Vincenzo Capasso, 2008-07-22 The dynamics of infectious diseases represents one of the oldest and richest areas of mathematical biology. From the classical work of Hamer 1906 and Ross 1911 to the state of more modern developments associated with Anderson and May, Dietz, Hethcote, Castillo-Chavez and others, the subject has grown dramatically both in volume and in importance. Given the pace of development, the subject has become more and more difficult to use, and the need to provide a framework for organizing the diversity of mathematical approaches has become clear. Enzo Capasso, who has been a major contributor to the mathematical theory, has done that in the present volume, providing a system for organizing and analyzing a wide range of models depending on the structure of the interaction matrix. The first class, the quasi-monotone or positive feedback systems, can be analyzed effectively through the use of comparison theorems; that is, the theory of order-preserving dynamical systems. The second class, the skew-symmetrizable systems, rely on Lyapunov methods. Capasso develops the general mathematical theory and considers a broad range of examples that can be treated within one or the other framework. In so doing, he has provided the first steps towards the unification of the subject and made an invaluable contribution to the *Lecture Notes in Biomathematics*. Simon A. Levin, Princeton, January 1993. Author's Preface to Second Printing. In the Preface to the First Printing of this volume, I wrote: **Mathematical Structures of Epidemic Systems** Vincenzo Capasso, 2008-08-06 The dynamics of infectious diseases represents one of the oldest and richest areas of mathematical biology. From the classical work of Hamer 1906 and Ross 1911 to the state of more modern developments associated with Anderson and May, Dietz, Hethcote, Castillo-Chavez and others, the subject has grown dramatically both in volume and in importance. Given the pace of development, the subject has become more and more difficult to use, and the need to provide a framework for organizing the diversity of mathematical approaches has become clear. Enzo Capasso, who has been a major contributor to the mathematical theory, has done that in the present volume, providing a system for organizing and analyzing a wide range of models depending on the structure of the interaction matrix. The first class, the quasi-monotone or positive feedback systems, can be analyzed effectively through the use of comparison theorems; that is, the theory of order-preserving dynamical systems. The second class, the skew-symmetrizable systems, rely on Lyapunov methods. Capasso develops the general mathematical theory and considers a broad range of examples that can be treated within one or the other framework. In so doing, he has provided the first steps towards the unification of the subject and made an invaluable contribution to the *Lecture Notes in Biomathematics*. Simon A. Levin, Princeton, January 1993. Author's Preface to Second Printing. In the Preface to the First Printing of this volume, I wrote: Trends in Biomathematics: Exploring Epidemics, Eco-Epidemiological Systems, and Optimal Control Strategies Rubem P. Mondaini, 2024-06-27 This volume convenes carefully selected peer-reviewed papers presented at the BIOMAT 2023 International Symposium, which was virtually held on November 6-9, 2023, with an organization staff based in Rio de Janeiro, Brazil. In this volume, the reader will find studies on the

epidemic model of the COVID 19 pandemic aspects of risk based testing and quarantine as well as joint efforts in the search for the perfect vaccine Additionally the volume covers the influence of fear and the saturated fear cost in predator prey dynamics optimal control techniques applied to HPV infection and cervical cancer cells generic epidemic models for disease propagation discretized SIS model with no vertical transmission dynamics of vibrio phage interactions and antibiotics treatment for septic arthritis Comprehensive Reviews are also included on the applications of CHIRP ultrasound for the mathematical modeling of evaporation of nanodroplets and on Alternative Entropy Measures and their application in the studies of distributions of discrete probabilities of occurrence These works aim to motivate Ph D students and new practitioners in the field of Biomathematics Held every year since 2001 the BIOMAT International Symposium gathers together in a single conference researchers from Mathematics Physics Biology and affine fields to foster the interdisciplinary exchange of results ideas and techniques promoting truly international cooperation for problem discussion BIOMAT volumes published from 2017 to 2022 are also available by Springer

Trends in Biomathematics: Modeling Epidemiological, Neuronal, and Social Dynamics Rubem P. Mondaini, 2023-07-24 This volume gathers together selected peer reviewed works presented at the BIOMAT 2022 International Symposium which was virtually held on November 7 11 2022 with an organization staff based in Rio de Janeiro Brazil Topics touched on in this volume include infection spread in a population described by an agent based approach the study of gene essentiality via network based computational modeling stochastic models of neuronal dynamics and the modeling of a statistical distribution of amino acids in protein domain families The reader will also find texts in epidemic models with dynamic social distancing with no vertical transmission and with general incidence rates Aspects of COVID 19 dynamics the use of an SEIR model to analyze its spread in Brazil the age dependent manner of modeling its spread pattern the impact of media awareness programs and a web based computational tool for Non invasive hemodynamics evaluation of coronary stenosis are also covered Held every year since 2001 The BIOMAT International Symposium gathers together in a single conference researchers from Mathematics Physics Biology and affine fields to promote the interdisciplinary exchange of results ideas and techniques promoting truly international cooperation for problem discussion BIOMAT volumes published from 2017 to 2021 are also available by Springer

Waves And Stability In Continuous Media - Proceedings Of The 10th Conference On Wascom 99 Vincenzo Ciancio, Andrea Donato, Francesco Oliveri, Salvatore Rionero, 2001-04-30 Mathematical problems concerning time evolution of solutions related to nonlinear systems modelling dynamics of continuous media are of great interest both in wave propagation and in stability problems During the last few decades many striking developments have taken place especially in connection with the effects of nonlinearity of the equations describing physical situations The articles in this book have been written by reputable specialists in the field and represent a valuable contribution to its advancement The topics are discontinuity and shock waves linear and nonlinear stability in fluid dynamics kinetic theories and comparison with continuum models

propagation and non equilibrium thermodynamics exact solutions via group methods numerical applications **Epidemic Models** Denis Mollison,1995-07-13 Surveys the state of epidemic modelling resulting from the NATO Advanced Workshop at the Newton Institute in 1993 **Mathematical Approaches for Emerging and Reemerging Infectious Diseases: Models, Methods, and Theory** Carlos Castillo-Chavez,Sally Blower,Pauline van den Driessche,Denise Kirschner,Abdul-Aziz Yakubu,2012-12-06 This IMA Volume in Mathematics and its Applications MATHEMATICAL APPROACHES FOR EMERGING AND REEMERGING INFECTIOUS DISEASES MODELS AND THEORY METHODS is based on the proceedings of a successful one week workshop The proceedings of the two day tutorial which preceded the workshop Introduction to Epidemiology and Immunology appears as IMA Volume 125 Mathematical Approaches for Emerging and Reemerging Infectious Diseases An Introduction The tutorial and the workshop are integral parts of the September 1998 to June 1999 IMA program on MATHEMATICS IN BIOLOGY I would like to thank Carlos Castillo Chavez Director of the Mathematical and Theoretical Biology Institute and a member of the Departments of Biometrics Statistics and Theoretical and Applied Mechanics Cornell University Sally M Blower Biomathematics UCLA School of Medicine Pauline van den Driessche Mathematics and Statistics University of Victoria and Denise Kirschner Microbiology and Immunology University of Michigan Medical School for their superb roles as organizers of the meetings and editors of the proceedings Carlos Castillo Chavez especially made a major contribution by spearheading the editing process I am also grateful to Kenneth L Cooke Mathematics Pomona College for being one of the workshop organizers and to Abdul Aziz Yakubu Mathematics Howard University for serving as co editor of the proceedings I thank Simon A Levin Ecology and Evolutionary Biology Princeton University for providing an introduction

Stochastic Processes In Genetics And Evolution: Computer Experiments In The Quantification Of Mutation And Selection Charles J Mode,Candace K Sleeman,2012-02-13 The scope of this book is the field of evolutionary genetics The book contains new methods for simulating evolution at the genomic level It sets out applications using up to date Monte Carlo simulation methods applied in classical population genetics and sets out new fields of quantifying mutation and selection at the Mendelian level A serious limitation of Wright Fisher process the assumption that population size is constant motivated the introduction of self regulating branching processes in this book While providing a short review of the principles of probability and its application and using computer intensive methods whilst applying these principles this book explains how it is possible to derive new formulas expressed in terms of matrix algebra providing new insights into the classical Wright Fisher processes of evolutionary genetics Also covered are the development of new methods for studying genetics and evolution simulating nucleotide substitutions of a DNA molecule and on self regulating branching processes Components of natural selection are studied in terms of reproductive success of each genotype whilst also studying the differential ability of genotypes to compete for resources and sexual selection The concept of the gene is also reviewed in this book and it provides a current definition of a gene based on very recent experiments with micro array technologies A development of stochastic

models for simulating the evolution of model genomes concludes the studies in this book Deserving of a place on the book shelves of workers in biomathematics applied probability stochastic processes and statistics as well as in bioinformatics and phylogenetics it will also be relevant to those interested in computer simulation and evolutionary biologists interested in quantitative methods

Dynamical Modeling and Analysis of Epidemics Zhien Ma, Jia Li, 2009 This timely book covers the basic concepts of the dynamics of epidemic disease presenting various kinds of models as well as typical research methods and results It introduces the latest results in the current literature especially those obtained by highly rated Chinese scholars A lot of attention is paid to the qualitative analysis of models the sheer variety of models and the frontiers of mathematical epidemiology The process and key steps in epidemiological modeling and prediction are highlighted using transmission models of HIV AIDS SARS and tuberculosis as application examples

Biomat 2013 - International Symposium On Mathematical And Computational Biology Rubem P Mondaini, 2014-04-02 This is a book of a series on interdisciplinary topics on the Biological and Mathematical Sciences The chapters correspond to selected papers on special research themes which have been presented at BIOMAT 2013 International Symposium on Mathematical and Computational Biology which was held in the Fields Institute for Research in Mathematical Sciences Toronto Ontario Canada on November 04 08 2013 The treatment is both pedagogical and advanced in order to motivate research students as well as to fulfill the requirements of professional practitioners There are comprehensive reviews written by prominent scientific leaders of famous research groups

Biomat 2008 - International Symposium On Mathematical And Computational Biology Rubem P Mondaini, 2009-07-27 The present volume contains selected contributed papers from the BIOMAT 2008 Symposium and lectures delivered by keynote speakers during the plenary sessions All chapters are centered on fundamental interdisciplinary areas of mathematical modeling of biosystems like mathematical biology biological physics evolution biology and bioinformatics It contains new results on the mathematical analysis of reaction diffusion equations demographic Allee effects and the dynamics of infection Recent approaches to the modeling of biosystem structure comprehensive reviews on icosahedral viral capsids and the classification of biological data via neural networks with prior knowledge and a new perspective on a theoretical basis for bioinformatics are also discussed This book contains original results on reaction diffusion waves the population dynamics of fishing resources and the effectiveness of marine protected areas an approach to language evolution within a population dynamics framework the analysis of bacterial genome evolution with Markov chains the choice of defense strategies and the study of the arms race phenomenon in a host parasite system

Mathematical Modeling and Control in Life and Environmental Sciences Sebastian Anița, Vincenzo Capasso, Simone Scacchi, 2024-04-29 This monograph explores the use of mathematical modeling and control theory in a variety of contemporary challenges in mathematical biology and environmental sciences Emphasizing an approach of learning by doing the authors focus on a set of significant case studies emerging from real world problems and illustrate how mathematical

techniques and computational experiments can be employed in the search for sustainable solutions The following topics are extensively discussed Eradicability and control of a paradigmatic epidemic model with a view to the existence of endemic states their stability and the existence of travelling waves A spatially structured epidemic model concerning malaria as an example of vector borne epidemics Optimal harvesting problems for space structured and age structured population dynamics Controlling epidemics in agriculture due to pest insects The role of predators as a possible biocontrol agent of epidemics in agriculture Control by taxation of the environmental pollution produced by human activities The originality of this text is in its leitmotif regional control along the principle of Think Globally Act Locally Indeed for example in many real spatially structured ecosystems it is practically impossible to control the relevant system by global interventions in the whole habitat Proofs are given whenever they may serve as a guide to the introduction of new concepts Each chapter includes a comprehensive description of the numerical methods used for the computational experiments and MATLAB codes for many of the numerical simulations are available for download Several challenging open problems are also provided to stimulate future research This text is aimed at mathematicians engineers and other scientists working in areas such as biology medicine and economics Graduate and advanced undergraduate students of a quantitative subject related to the analysis and applications of dynamical systems and their control will also find it to be a valuable resource

Mathematical Models in Epidemiology Fred Brauer, Carlos Castillo-Chavez, Zhilan Feng, 2019-10-10 The book is a comprehensive self contained introduction to the mathematical modeling and analysis of disease transmission models It includes i an introduction to the main concepts of compartmental models including models with heterogeneous mixing of individuals and models for vector transmitted diseases ii a detailed analysis of models for important specific diseases including tuberculosis HIV AIDS influenza Ebola virus disease malaria dengue fever and the Zika virus iii an introduction to more advanced mathematical topics including age structure spatial structure and mobility and iv some challenges and opportunities for the future There are exercises of varying degrees of difficulty and projects leading to new research directions For the benefit of public health professionals whose contact with mathematics may not be recent there is an appendix covering the necessary mathematical background There are indications which sections require a strong mathematical background so that the book can be useful for both mathematical modelers and public health professionals

Deterministic And Stochastic Models Of Aids Epidemics And Hiv Infections With Intervention Wai-yuan Tan, Hulin Wu, 2005-07-07 With contributions from an international team of leading researchers the book pulls together updated research results in the area of HIV AIDS modeling to provide readers with the latest information in the field Topics covered include AIDS epidemic models vaccine models models for HIV cell dynamics and interactions cellular kinetics viral dynamics with antiviral treatments modeling of drug resistance and quasispecies Extensive deterministic models statistical models stochastic models and state space models on treating AIDS patients with anti retroviral drugs are provided as well as an in depth discussion of these models The book also

contains updated reviews on mathematical models for assessing effects of AIDS vaccines statistical methods for analyzing clinical trial data on AIDS vaccines and overviews of models and statistical methods for assessing drug resistance of HIV to anti retroviral drugs Some important statistical methods specific to the intervention and prevention of HIV epidemic are also discussed This will be a useful reference source for graduate students and researchers in biomathematics and biostatistics as well as for HIV AIDS epidemiologists and clinical investigators learning quantitative methods to study AIDS epidemics and HIV infection

Structured Population Models in Biology and Epidemiology Pierre Magal, Shigui Ruan, 2008-04-30 In this new century mankind faces ever more challenging environmental and public health problems such as pollution invasion by exotic species the emergence of new diseases or the emergence of diseases into new regions West Nile virus SARS Anthrax etc and the resurgence of existing diseases in uenza malaria TB HIV AIDS etc Mathematical models have been successfully used to study many biological epidemiological and medical problems and nonlinear and complex dynamics have been observed in all of those contexts Mathematical studies have helped us not only to better understand these problems but also to find solutions in some cases such as the prediction and control of SARS outbreaks understanding HIV infection and the investigation of antibiotic resistant infections in hospitals Structured population models distinguish individuals from one another according to characteristics such as age size location status and movement to determine the birth growth and death rates interaction with each other and with environment infectivity etc The goal of structured population models is to understand how these characteristics affect the dynamics of these models and thus the outcomes and consequences of the biological and epidemiological processes There is a very large and growing body of literature on these topics This book deals with the recent and important advances in the study of structured population models in biology and epidemiology There are six chapters in this book written by leading researchers in these areas

Mathematics in Population Biology Horst R.

Thieme, 2018-06-05 The formulation analysis and re evaluation of mathematical models in population biology has become a valuable source of insight to mathematicians and biologists alike This book presents an overview and selected sample of these results and ideas organized by biological theme rather than mathematical concept with an emphasis on helping the reader develop appropriate modeling skills through use of well chosen and varied examples Part I starts with unstructured single species population models particularly in the framework of continuous time models then adding the most rudimentary stage structure with variable stage duration The theme of stage structure in an age dependent context is developed in Part II covering demographic concepts such as life expectation and variance of life length and their dynamic consequences In Part III the author considers the dynamic interplay of host and parasite populations i.e. the epidemics and endemics of infectious diseases The theme of stage structure continues here in the analysis of different stages of infection and of age structure that is instrumental in optimizing vaccination strategies Each section concludes with exercises some with solutions and suggestions for further study The level of mathematics is relatively modest a toolbox provides a summary of required results

in differential equations integration and integral equations In addition a selection of Maple worksheets is provided The book provides an authoritative tour through a dazzling ensemble of topics and is both an ideal introduction to the subject and reference for researchers

Current Trends in Dynamical Systems in Biology and Natural Sciences Maira Aguiar, Carlos Braumann, Bob W. Kooi, Andrea Pugliese, Nico Stollenwerk, Ezio Venturino, 2020-05-06 This book disseminates the latest results and envisages new challenges in the application of mathematics to various practical situations in biology epidemiology and ecology It comprises a collection of the main results presented at the Ninth Edition of the International Workshop Dynamical Systems Applied to Biology and Natural Sciences DSABNS held from 7 to 9 February 2018 at the Department of Mathematics University of Turin Italy While the principal focus is ecology and epidemiology the coverage extends even to waste recycling and a genetic application The topics covered in the 12 peer reviewed contributions involve such diverse mathematical tools as ordinary and partial differential equations delay equations stochastic equations control and sensitivity analysis The book is intended to help both in disseminating the latest results and in envisaging new challenges in the application of mathematics to various practical situations in biology epidemiology and ecology

Basic Models in Epidemiology Fred Brauer, Carlos Castillo-Chavez, 1994

Biological Invasions: Theory and Practice Nanako Shigesada, Kohkichi Kawasaki, 1997-02-06 This book deals with the ecological effect a species can have when it moves into an environment that it has not previously occupied commonly referred to as an Invasion It is unique in presenting a clear and accessible introduction to a highly complex area the modelling of biological invasions The book presents the latest theories and models developed from studies into this crucial area It includes data and examples from biological case studies showing how the models can be applied to the study of invasions whether dealing with AIDS the European rabbit or prickly pear cactuses In nature all organisms migrate or disperse to some extent either by walking swimming flying or being transported by wind or water When a species succeeds in colonising an area that it has not previously inhabited this is referred to as an invasion Humans can precipitate biological invasions often spreading disease or pests by their travels around the world Using the large amount of data that has been collected from studies worldwide ranging from pest control to epidemiology it has been possible to construct mathematical models that can predict which species will become an invader what kind of habitat is susceptible to invasion by a particular species and how fast an invasion will spread if it occurs This book presents a clear and accessible introduction to this highly complex area Included are data and examples from biological case studies showing how these models can be applied to the study of invasions whether dealing with AIDS the European rabbit or prickly pear cactuses

Ecological Time Series Thomas M. Powell, John H. Steele, 2012-12-06 This book results from a summer school held at Cornell University in 1992 The participants were graduate students and postdoctoral researchers selected from a broad range of interests and backgrounds in ecological studies The summer school was the second in a continuing series whose underlying aim and the aim of this volume is to bring together the different methods and concepts underpinning

terrestrial freshwater and marine ecology The first volume in the series focused on patch dynamics in these three ecological sectors Here we have endeavored to complement that volume by extending its comparative approach to the consideration of ecological time series The types of data and the methods of collection are necessarily very different in these contrasting environments yet the underlying concept and the technical problems of analysis have much in common It proved to be of great interest and value to the summer school participants to see the differences and then work through to an appreciation of the generalizable concepts We believe that such an approach must have value as well for a much larger audience and we have structured this volume to provide a comparable reading experience

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