

**Biomathematics  
Volume 13**

**John Impagliazzo**

**Deterministic  
Aspects of  
Mathematical  
Demography**



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# Deterministic Aspects Of Mathematical Demography

**J. Impagliazzo**



## **Deterministic Aspects Of Mathematical Demography:**

*Deterministic Aspects of Mathematical Demography* J. Impagliazzo, 2012-12-06 Mathematical Demography the study of population and its analysis through mathematical models has received increased interest in the mathematical community in recent years It was not until the twentieth century however that the study of population predominantly human population achieved its mathematical character The subject of mathematical demography can be viewed from either a deterministic viewpoint or from a stochastic viewpoint For the sake of brevity stochastic models are not included in this work It is therefore my intention to consider only established deterministic models in this discussion starting with the life table as the earliest model to a generalized matrix model which is developed in this treatise These deterministic models provide sufficient development and conclusions to formulate sound mathematical population analysis and estimates of population projections It should be noted that although the subject of mathematical demography focuses on human populations the development and results may be applied to any population as long as the preconditions that make the model valid are maintained Information concerning mathematical demography is at best fragmented

*Deterministic Aspects of Mathematical Demography* John Impagliazzo, 1985-06-01

*An Introduction to Structured Population Dynamics* J. M. Cushing, 1998-01-01 This monograph introduces the theory of structured population dynamics and its applications focusing on the asymptotic dynamics of deterministic models

**Introduction to Theoretical Population Genetics** Thomas Nagylaki, 2013-03-12 This book covers those areas of theoretical population genetics that can be investigated rigorously by elementary mathematical methods I have tried to formulate the various models fairly generally and to state the biological assumptions quite explicitly I hope the choice and treatment of topics will enable the reader to understand and evaluate detailed analyses of many specific models and applications in the literature Models in population genetics are highly idealized often even over idealized and their connection with observation is frequently remote Further more it is not practicable to measure the parameters and variables in these models with high accuracy These regrettable circumstances amply justify the use of appropriate lucid and rigorous approximations in the analysis of our models and such approximations are often illuminating even when exact solutions are available However our empirical and theoretical limitations justify neither opaque incomplete formulations nor unconvincing inadequate analyses for these may produce uninterpretable misleading or erroneous results Intuition is a principal source of ideas for the construction and investigation of models but it can replace neither clear formulation nor careful analysis Fisher 1930 1958 pp x 23 24 38 not only espoused similar ideas but he recognized also that our concepts of intuition and rigor must evolve in time The book is neither a review of the literature nor a compendium of results The material is almost entirely self contained The first eight chapters are a thoroughly revised and greatly extended version of my published lecture notes Nagylaki 1977a

*Age-Structured Population Dynamics in Demography and Epidemiology* Hisashi Inaba, 2017-03-15 This book is the first one in which basic demographic models are rigorously formulated by using modern age structured

population dynamics extended to study real world population problems Age structure is a crucial factor in understanding population phenomena and the essential ideas in demography and epidemiology cannot be understood without mathematical formulation therefore this book gives readers a robust mathematical introduction to human population studies In the first part of the volume classical demographic models such as the stable population model and its linear extensions density dependent nonlinear models and pair formation models are formulated by the McKendrick partial differential equation and are analyzed from a dynamical system point of view In the second part mathematical models for infectious diseases spreading at the population level are examined by using nonlinear differential equations and a renewal equation Since an epidemic can be seen as a nonlinear renewal process of an infected population this book will provide a natural unification point of view for demography and epidemiology The well known epidemic threshold principle is formulated by the basic reproduction number which is also a most important key index in demography The author develops a universal theory of the basic reproduction number in heterogeneous environments By introducing the host age structure epidemic models are developed into more realistic demographic formulations which are essentially needed to attack urgent epidemiological control problems in the real world

**Deterministic Models in Mathematical Demography** John Impagliazzo, 1980 *Dynamic Population Models* Robert Schoen, 2007-05-05 *Dynamic Population Models* is the first book to comprehensively discuss and synthesize the emerging field of dynamic modeling Incorporating the latest research it includes thorough discussions of population growth and momentum under gradual fertility declines the impact of changes in the timing of events on fertility measures and the complex relationship between period and cohort measures The book is designed to be accessible to those with only a minimal knowledge of calculus

*Introduction to Mathematics for Life Scientists* Edward Batschelet, 2012-12-06 From the reviews Here we have a book which we can wholeheartedly suggest The mathematics is sound and pared to essentials the examples are an impressive well chosen selection from the biomathematics literature and the problem sets provide both useful exercises and some fine introductions to the art of modeling Batschelet has written an introduction to biomathematics which is notable for its clarity not only a clarity of presentation but also a clarity of purpose backed by a sure grasp of the field *Bulletin of Mathematical Biology* 1 For research workers in the biomedical field who feel a need for freshening up their knowledge in mathematics but so far have always been frustrated by either too formal or too boring textbooks there is now exactly what they would like to have an easy to read introduction This book is highly motivating for practical workers because only those mathematical techniques are offered for which there is an application in the life sciences The reader will find it stimulating that each tool described is immediately exemplified by problems from latest publications *Int Zeitschrift für klinische Pharmakologie Therapie und Toxikologie* 2

*Resource Management* Marc Mangel, 2013-03-13 These are the proceedings of the Second R Yorque Workshop on Resource Management which took place in Ashland Oregon on July 23 25 1984 The purpose of the workshop is to provide an informal atmosphere for the discussion of resource assessment and

management problems Each participant presented a one hour morning talk afternoons were reserved for informal chatting The workshop was successful in stimulating ideas and interaction The papers by R Deriso R Hilborn and C Walters all address the same basic issue so they are lumped together Other than that the order to the papers in this volume was determined in the same fashion as the order of speakers during the workshop by random draw Marc Mangel Department of Mathematics University of California Davis California June 1985 TABLE OF CONTENTS A General Theory for Fishery Modeling Jon Schnute Data Transformations in Regression Analysis with Applications to Stock Recruitment Relationships David Ruppert and Raymond J Carroll 29 A Conceptual Model for Multispecies Multifleet Fisheries Wayne M Getz Gordon L Swartzman and Robert C Francis 49 Risk Adverse Harvesting Strategies Richard Der iso 65 A Comparison of Harvest Policies for Mixed Stock Fisheries Ray Hilborn 75 Pathological Behavior of Managed Populations When Production Relationships are Assessed from Natural Experiments Carl J Walters

**Mathematical Structures in Population Genetics** I[ ]U[ ]ri[ ] Il'ich Li[ ]u[ ]bich,1992-03-16 Very Good No Highlights or Markup all pages are intact *Mathematical Theory of Age-structured Population Dynamics* Mimmo Iannelli,1995 Mathematical Models in Biology Leah Edelstein-Keshet,1988 The major aim of this book is to present instances of interaction between two major disciplines biology and mathematics The goal has been that of addressing a fairly wide audience Biology students will find this text useful as a summary of modern mathematical methods currently used in modelling and furthermore applied mathematics students may benefit from examples of applications of mathematics to real life problems As little background as possible has been assumed throughout the book prerequisites are basic calculus so that undergraduate students as well as beginning graduate students will find most of the material accessible *Journal of Mathematical Biology* ,1986 Publishes papers in which mathematics is used to understand biological phenomena and mathematical papers which answer questions arising from models of biological phenomena

**Evolution of the Danish Population from 1835 to 2000** Kirill Andreev,2002 International comparisons of mortality aimed at revealing age specific and time specific differences in survival between Denmark and nine developed countries have been carried out by estimating ratios of death rates in the last decades To gain deeper insights into this phenomenon comparative analyses of death rates by causes of death for Denmark Sweden the Netherlands and Japan have been performed The book is accompanied by a CD ROM including color Lexis maps graphs of trends in death rates by causes of death animated graphs of common survival indicators and a Lexis program for producing Lexis maps Mathematical Biology James Dickson Murray,1989 *Lecture Notes in Pure and Applied Mathematics* ,1991 Papers on Mathematical Ecology A. Csetényi,1986 *Proceedings* ,1984 **Papers on Mathematical Ecology** ,1986 **Discrete and Continuous Dynamical Systems** ,2004

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