

Stochastic Process



A Series of events formed by random variables form an Inbuilt Pattern

Stochastic Processes In Demography And Applications

C. J. Mode



Stochastic Processes In Demography And Applications:

Stochastic Processes in Demography and Applications Suddhendu Biswas,1988 **Stochastic Processes in Demography and Applications** Suddhendu Biswas,1988 *Stochastic Processes in Demography and Applications* Suddhendu Biswas,G. L. Sriwastav,2011 *Stochastic Processes In Demography & Applications* Biswas & Sriwastav, Applied Stochastic Processes Suddhendu Biswas,1995-11-09 This book is an extension of the author s former work *Stochastic Processes in Demography and Applications* This extension expands the scope of the earlier book to focus on and encompass the various techniques of applied stochastic processes with orientation or emphasis on biostatistics including statistical genetics and survival analysis **Applications of Stochastic Processes to Demography** Raymond Paul Traub,1973 **Stochastic Processes in Demography and Their Computer Implementation** C.J. Mode,2012-12-06 According to a recent report of the United States Census Bureau world population as of June 30 1983 was estimated at about 4.7 billion people of this total an estimated 82 million had been added in the previous year World population in 1950 was estimated at about 2.5 billion consequently if 82 million people are added to the world population in each of the coming four years population size will be double that of 1950 Another way of viewing the yearly increase in world population is to compare it to 234 million the estimated current population of the United States If the excess of births over deaths continues a group of young people equivalent to the population of the United States will be added to the world population about every 2.85 years Although the rate of increase in world population has slowed since the midsixties it seems likely that large numbers of infants will be added to the population each year for the foreseeable future A large current world population together with a high likelihood of substantial increments in size every year has prompted public and scholarly recognition of population as a practical problem Tangible evidence in the public domain that population is being increasingly viewed as a problem is provided by the fact that many governments around the world either have or plan to implement policies regarding population Evidence of scholarly concern is provided by an increasing flow of publications dealing with population *Stochastic Processes in Demography and Their Computer Implementation* C. J. Mode,1985-09-01 **Paleodemography** Robert D. Hoppa,James W. Vaupel,2008-10-30 Paleodemography is the field of enquiry that attempts to identify demographic parameters from past populations usually skeletal samples derived from archaeological contexts and then to make interpretations regarding the health and well being of those populations However paleodemographic theory relies on several assumptions that cannot easily be validated by the researcher and if incorrect can lead to large errors or biases In this book physical anthropologists mathematical demographers and statisticians tackle these methodological issues for reconstructing demographic structure for skeletal samples Topics discussed include how skeletal morphology is linked to chronological age assessment of age from the skeleton demographic models of mortality and their interpretation and biostatistical approaches to age structure estimation from archaeological samples This work will be of immense importance to anyone interested in

paleodemography including biological and physical anthropologists demographers geographers evolutionary biologists and statisticians *Methodology for Population Studies and Development* Kuttan Mahadevan, Parameswara Krishnan, 1993-05-25 This volume examines aspects of research methodology related to assessing the interaction between development and population behaviour with all its social ramifications The contributors approach development from a broad holistic perspective and present interdisciplinary methods for the study of population processes with emphasis on both theory and practice **Methodological Investigations in Agent-Based Modelling** Eric Silverman, 2018-02-20 This open access book examines the methodological complications of using complexity science concepts within the social science domain The opening chapters take the reader on a tour through the development of simulation methodologies in the fields of artificial life and population biology then demonstrates the growing popularity and relevance of these methods in the social sciences Following an in depth analysis of the potential impact of these methods on social science and social theory the text provides substantive examples of the application of agent based models in the field of demography This work offers a unique combination of applied simulation work and substantive in depth philosophical analysis and as such has potential appeal for specialist social scientists complex systems scientists and philosophers of science interested in the methodology of simulation and the practice of interdisciplinary computing research Point Processes for Reliability Analysis Ji Hwan Cha, Maxim Finkelstein, 2018-01-17 Focusing on the theory and applications of point processes Point Processes for Reliability Analysis naturally combines classical results on the basic and advanced properties of point processes with recent theoretical findings of the authors It also presents numerous examples that illustrate how general results and approaches are applied to stochastic description of repairable systems and systems operating in a random environment modelled by shock processes The real life objects are operating in a changing random environment One of the ways to model an impact of this environment is via the external shocks occurring in accordance with some stochastic point processes The Poisson homogeneous and nonhomogeneous process the renewal process and their generalizations are considered as models for external shocks affecting an operating system At the same time these processes model the consecutive failure repair times of repairable engineering systems Perfect minimal and intermediate imperfect repairs are discussed in this respect Covering material previously available only in the journal literature Point Processes for Reliability Analysis provides a survey of recent developments in this area which will be invaluable to researchers and advanced students in reliability engineering and applied mathematics Mathematical Demography David P. Smith, Nathan Keyfitz, 2013-07-23 Mathematical demography is the centerpiece of quantitative social science The founding works of this field from Roman times to the late Twentieth Century are collected here in a new edition of a classic work by David R Smith and Nathan Keyfitz Commentaries by Smith and Keyfitz have been brought up to date and extended by Kenneth Wachter and Herv Le Bras giving a synoptic picture of the leading achievements in formal population studies Like the original collection this new edition constitutes an

indispensable source for students and scientists alike and illustrates the deep roots and continuing vitality of mathematical demography The Demography of Corporations and Industries Glenn R. Carroll, Michael T. Hannan, 2018-06-05 Most analysts of corporations and industries adopt the focal perspective of a single prototypical organization Many analysts also study corporations primarily in terms of their internal organizational structures or as complex systems of financial contracts Glenn Carroll and Michael Hannan bring fresh insight to our understanding of corporations and the industries they comprise by looking beyond prototypical structures to focus on the range and diversity of organizations in their social and economic setting The result is a rich rendering of analysis that portrays whole populations and communities of corporations The Demography of Corporations and Industries is the first book to present the demographic approach to organizational studies in its entirety It examines the theory models methods and data used in corporate demographic research Carroll and Hannan explore the processes by which corporate populations change over time including organizational founding growth decline structural transformation and mortality They review and synthesize the major theoretical mechanisms of corporate demography ranging from aging and size dependence to population segregation and density dependence The book also explores some selected implications of corporate demography for public policy including employment and regulation In this path breaking book Carroll and Hannan demonstrate why demographic research on corporations is important describe how to conduct demographic research specify fruitful areas of future research and suggest how the demographic perspective can enrich the public discussion of issues surrounding the corporation in our constantly evolving industrial society All researchers and analysts with an interest in this topic will find The Demography of Corporations and Industries an invaluable resource *New Technical Books* New York Public Library, 1989 **Dissertation Abstracts International**, 1974

Current Index to Statistics, Applications, Methods and Theory, 1999 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields Life Table Techniques and Their Applications Narayanan Krishnan Namboodiri, C. M. Suchindran, 1987-05-28 This is the first volume to present a comprehensive treatment of the theory and application of life table techniques The emphasis is placed on applications and the theory is presented in such a way that individuals with minimal knowledge of calculus and matrix algebra can follow the argument

Comprehensive Dissertation Index: Mathematics & statistics. Physics, A-E, 1984 **Multiregional Demography** Andrei Rogers, 1995-12-05 The SPACE computer program included in the disk provides the opportunity to test multiregional demographic analysis by carrying out calculations with empirical data

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