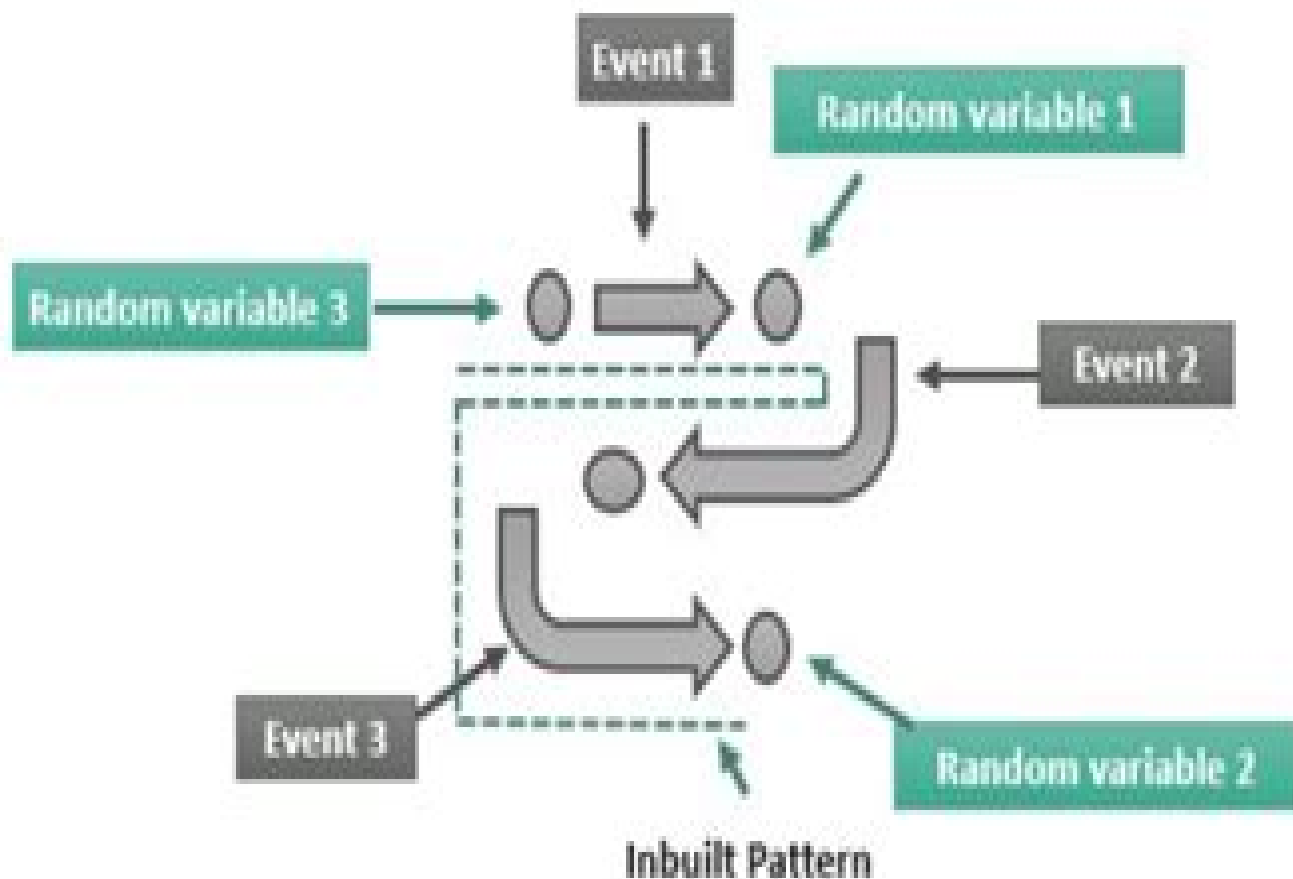


Stochastic Process



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

Stochastic Process In Demography And Applications

Suddhendu Biswas, G. L. Sriwastav



Stochastic Process In Demography And Applications:

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, *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 mid-sixties 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 *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 ***Demography: Analysis and Synthesis, Four Volume Set*** Graziella Caselli, Jacques Vallin, Guillaume Wunsch, 2006-01-03 This four volume collection of over 140 original chapters covers virtually everything of interest to demographers sociologists and others Over 100 authors present population subjects in ways that provoke thinking and lead to the creation of new perspectives not just facts and equations to be memorized The articles follow a theory methods applications approach and so offer a kind of one stop shop that is well suited for students and professors who need non technical summaries such as political scientists public affairs specialists and others Unlike shorter handbooks *Demography Analysis and Synthesis* offers a long overdue thorough treatment of the field Choosing the analytical method that fits the data and the situation requires insights that the authors and editors of *Demography Analysis and Synthesis* have explored and developed This extended examination of demographic tools not only seeks to explain the analytical tools themselves but also the relationships between general population dynamics and their natural economic social political and cultural environments

Limiting themselves to human populations only the authors and editors cover subjects that range from the core building blocks of population change fertility mortality and migration to the consequences of demographic changes in the biological and health fields population theories and doctrines observation systems and the teaching of demography The international perspectives brought to these subjects is vital for those who want an unbiased rounded overview of these complex multifaceted subjects Topics to be covered Population Dynamics and the Relationship Between Population Growth and Structure The Determinants of Fertility The Determinants of Mortality The Determinants of Migration Historical and Geographical Determinants of Population The Effects of Population on Health Economics Culture and the Environment Population Policies Data Collection Methods and Teaching about Population Studies All chapters share a common format Each chapter features several cross references to other chapters Tables charts and other non text features are widespread Each chapter contains at least 30 bibliographic citations

Branching Processes and Their Applications Inés M. del Puerto, Miguel González, Cristina Gutiérrez, Rodrigo Martínez, Carmen Minuesa, Manuel Molina, Manuel Mota, Alfonso Ramos, 2016-09-06 This volume gathers papers originally presented at the 3rd Workshop on Branching Processes and their Applications WBPA15 which was held from 7 to 10 April 2015 in Badajoz Spain <http://branching.unex.es/wbpa15/index.htm> The papers address a broad range of theoretical and practical aspects of branching process theory Further they amply demonstrate that the theoretical research in this area remains vital and topical as well as the relevance of branching concepts in the development of theoretical approaches to solving new problems in applied fields such as Epidemiology Biology Genetics and of course Population Dynamics The topics covered can broadly be classified into the following areas 1 Coalescent Branching Processes 2 Branching Random Walks 3 Population Growth Models in Varying and Random Environments 4 Size Density Resource Dependent Branching Models 5 Age Dependent Branching Models 6 Special Branching Models 7 Applications in Epidemiology 8 Applications in Biology and Genetics Offering a valuable reference guide to contemporary branching process theory the book also explores many open problems paving the way for future research

Topics in Statistical Methodology Suddhendu Biswas, Vijay Kumar Sehgal, 1991 The Text Book Covers All Traditional As Well As Newly Emerging Topics In Statistical Methodology A Broad General Description Of The Book Consists Of I A Lucid Presentation To The Motivation Of The Modern Axiomatic Approach To Probability Ii Study Of All Major Distributions Inclusive Of Circular Log Normal Singular With New Interpretations Of some Distributions Ex Pareto Logistic Etc Iii Model Oriented Approach To The Generations Of Normal Log Normal Cauchy Exponential Gamma And Other Waiting Distributions And Their Characterizations Iv Techniques Of Truncated And Censored Distributions Vis Vis Parametric Non Parametric Bayesian And Sequential Inference Procedures The Backgrounds Of Which Have Been Provided V Inclusion Of Classical Topics As Pearsonian Curves Gram Charlier Series And Orthogonal Polynomials Some Of The Distinguishing Features Are As Follows Introducing The Concept Of Correlation As A Milestone In The Development Of Regression Theory A Large Number

Of Solved Examples And A Wide Collection Of Unsolved Problems With Occasional Hints A Geometrical Treatment Of Non Central X2 **Forecasting Mortality in Developed Countries** E. Tabeau, Anneke van den Berg Jeths, Christopher Heathcote, 2006-04-11 Information on future mortality trends is essential for population forecasts public health policy actuarial studies and many other purposes Realising the importance of such needs this volume contains contributions to the theory and practice of forecasting mortality in the relatively favourable circumstances in developed countries of Western Europe In this context techniques from mathematical statistics and econometrics can provide useful descriptions of past mortality The naive forecast obtained by extrapolating a fitted model may give as good a forecast as any but forecasting by extrapolation requires careful justification since it assumes the prolongation of historical conditions On the other hand whilst it is generally accepted that scientific and other advances will continue to impact on mortality perhaps dramatically so it is impossible to quantify more than the outline of future consequences with a strong degree of confidence The decision to modify an extrapolation of a model fitted to historical data or conversely choosing not to modify it in order to obtain a forecast is therefore strongly influenced by subjective and judgmental elements with the quality of the latter dependent on demographic epidemiological and indeed perhaps more general considerations The thread running through the book reflects therefore the necessity of integrating demographic epidemiological and statistical factors to obtain an improvement in the prediction of mortality

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