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According to a recent
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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

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Introduction. Chance events (such as lightning strikes or floods) occur commonly in nature. In ecology, unpredictable events that can affect population and community dynamics are

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called stochastic processes. Although ecologists recognize that stochastic processes occur, their importance in shaping populations and communities has been controversial.

Stochastic Processes -
Ecology - Oxford
Bibliographies

A stochastic or random process can be defined as

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a collection of random variables that is indexed by some mathematical set, meaning that each random variable of the stochastic process is uniquely associated with an element in the set. The set used to index the random variables is called the index set.

Stochastic process -
Wikipedia

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using branching processes, in a simple version of which, each member of each generation produces offspring, in accordance with a fixed probability law common to all members (see, e.g., Grimmett and Stirzaker, 1992 for a discussion of simple as well as complex models of branching processes).

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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

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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

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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

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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

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have or plan to implement policies regarding population. Evidence of scholarly concern is provided by an increasing flow of publications dealing with population.

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The vast majority of
random processes in the
real world have no
memory - the next step
in their development

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depends purely on their current state. Stochastic realizations are therefore defined purely in terms of successive event-time pairs, and such systems are easy to simulate irrespective of their degree of complexity. However, whilst the associated probability equations are straightforward to write down, their solution

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usually requires the use of approximation and perturbation procedures.

Traditional books, heavy in mathematical theory, often ignore such methods and attempt to force problems into a rigid framework of closed-form solutions. This text, strongly oriented towards problem solving, has three aims. First, basic analytic tools are

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introduced through a suite of stochastic processes which do possess relatively simple closed-form solutions. Second, techniques are presented that enable the extraction of considerable behavioral information even when exact probability structures are intractable to direct solution. Third, a range of simulation

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procedures is proposed which provide insight into the way that particular systems develop - these often expose hitherto unforeseen features and thereby suggest further lines of exploration. Although the examples are slanted towards ecological and physical applications, only a little imagination is required in

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order to apply the techniques to problems generic to engineering, chemistry and finance.

Indeed, the book provides a rich source of ideas for anyone working with random processes who is prepared to take a flexible approach. Many aspects of population dynamics are covered, including: general birth-death and power-law

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processes; random and correlated walks; Markov chains; perturbation and saddlepoint techniques; Wiener, Fokker-Planck and Ornstein-Uhlenbeck diffusion processes; general bivariate processes, including predator-prey, competition, epidemic, cumulative size and counting systems; MCMC and simulation

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techniques; and
velocities, dynamic
structure, Turing ring
systems and cellular
automata for spatial-
temporal systems.

Extensions include fractal
structure from power-law
contact distributions, and
marked point processes.
Since little of the material
is covered at a deep
mathematical level, the
book will be readily

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accessible to a wide range of researchers and practitioners, and provides an excellent basis for constructing novel undergraduate and postgraduate courses in applied probability. The unified approach exposes the high degree of linkage that exists between apparently unconnected processes. The book can also be treated as a

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toolbox to be dipped
into in order to select
specific analytic and
computational
techniques.

This book provides new theories, applications and quantitative methods in demography, population studies and statistics. It presents and applies data analysis, statistics and stochastic modeling

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techniques focusing on demography, population aging, mortality and health sciences. The book describes diverse stochastic processes as well as Markov and semi-Markov models in demography and population studies, along with chapters on statistical models and methods in biostatistics and epidemiology. As

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such the book will be a valuable source to demographers, health scientists, statisticians, economists and sociologists.

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