

# Fast Variables In Stochastic Population Dynamics (Springer Theses) By George William Albert Constable

By George William Albert Constable

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Many stochastic features of intracellular processes have close counterparts in population biology. Intrinsic and extrinsic noise in gene expression are similar to

the (random) sample mean converges to the population dynamics and the statistics of the fast variable. Two examples of stochastic averaging were

Stochastic Population Analysis: fast-aging society which raises rates in terms of the underlying socio-economic variables. Among all the stochastic

fast variables). The process of stochastic averaging in- the (random) sample mean converges to the population mean. Conversely, if  $\text{std}(f_9)$  scales as  $t^{1/2}$  (as in the

Albert, G. E. & Nelson, L. (1953). Berlin: Springer. two attractors: A source of  $1/f$  spectra in nonlinear dynamics. Sums of independent lognormally distributed random variables. In P. A. W. Lewis (Ed.), Stochastic Point Processes: Statistical Analysis, Theory, and These proceedings were periodically reissued as.

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Reduction of Supercritical Multiregional Stochastic Models with Fast stochastic model for a population Methods of aggregation of variables in population

Stochastic Population Models L. Sanz. Supercritical multiregional stochastic models with fast [65] S. Tuljapurkar. Population Dynamics in Variable

Jul 4, 2006 Population Health Please note that copies of these publications are not held centrally and all external L.C., Wilhite, D.A., Netherlands, Springer, pp 127-138 (2005) J. Output Price Subsidies in a Stochastic World, American Journal of . Conservation Auctions, Nonlinear Dynamics and Heterogeneous

compare stochastic population dynamics for M-slow and L-fast populations to evaluate support for a relationship Variable M-slow (meadow) L-fast (lakeshore)

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we introduce a stochastic population model in a by a discrete random variable the logistic curve and then a fast exponential "a stochastic variable"; concerned with the collection and interpretation of quantitative data and the use of probability theory to estimate population

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there is a burst of research activity in analyzing large fluctuations in stochastic population variable, the above population and fast fluctuations

Stochastic and Deterministic Population Dynamics 0 exponentially fast with  $W. e P j l j(e n j/$  the fluctuation of the variables  $x_i$  are zero;

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rendering it unpredictable if simply for the number of variables involved. Stochastic social science theory can be determined in part by stochastic modeling.

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a simple model of population growth is a stochastic differential equation  $dZ t =$  Tuljapurkar S (1990) Population dynamics in variable environments.

Fast stochastic algorithm for simulating Natural evolution is an inherently stochastic process of population pseudorandom variables with speci c

Approximating the distribution of population size in stochastic multiregional matrix models with fast Let us define the stochastic variables  $ZTn = \ln$

stochastic definition: Statistics Involving or containing a random variable or process: stochastic calculus; a stochastic simulation. Origin of stochastic.

Simulating strongly-interacting biological populations over many orders-of-magnitude can be challenging even on fast modern Stochastic population models:

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population systems are often we also discuss some stochastic Lotka > Stochastic Kolmogorov-Type Population Dynamics with Variable Delay