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In probability theory and related fields, a stochastic or random process is a mathematical object usually defined as a family of random variables.Many stochastic processes can be represented by time series. However, a stochastic process is by nature continuous while a time series is a set of observations indexed by integers.

Stochastic process - Wikipedia

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Randomness - Wikipedia

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chapters develop probability theory and introduce the axioms of probability, random variables, and joint distributions. The following two chapters are shorter and of an “introduction to” nature: Chapter 4 on limit theorems and Ch apter 5 on simulation. Statistical inference is treated in Chapter 6, which includes a section on Bayesian v

Probability, Statistics, and Stochastic Processes

That is, the change of X t is random. STAT304 Applied Probability and Financial Risk – p. 2/34 Random Walk Usually, it always assume that E (ε t) = 0 and var (ε t) = σ 2. It can show that the mean of a random walk process is constant if E (ε t) = 0, but its variance is not. The variance increases with t Therefore, a random walk process is ...