

An Introduction To Stochastic Processes And Their Applications

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Basic concepts from Lebesgue measure theory are also provided in Appendix A. Chapter 2 gives an introduction to the mathematical theory of stochastic processes in continuous time, including basic definitions and theorems on processes with independent increments, martingales, and Markov processes.

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Different runs of a stochastic process are often called realisations of the process. MA636: Introduction to stochastic processes 1-4 Deterministic models are generally easier to analyse than stochastic models. However, in many cases stochastic models are more realistic, particularly for problems that involve 'small numbers'.

1 Introduction to Stochastic Processes

Galton-Watson tree is a branching stochastic process arising from Francis Galton's statistical investigation of the extinction of family names. The process models family names. Each vertex has a random number of offsprings. The figure shows the first four generations of a possible Galton-Watson tree. (Image by Dr. Hao Wu.)

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An introduction to sparse stochastic processes

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