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An introduction to stochastic processes. By M. S. Bartlett. Cambridge University Press, 1955. Pp. xiv, 312; 15 Figs., 6 Tables. 35s

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Branching processes are a class of stochastic processes that model the growth of populations. They are widely used in biology and epidemiology to study the spread of infectious diseases and epidemics. Applications include nuclear chain reactions and the spread of computer software viruses. This chapter discusses the branching processes in detail.

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Introduction to Probability and Stochastic Processes with Applications is an ideal book for probability courses at the upper-undergraduate level. The book is also a valuable reference for researchers and practitioners in the fields of engineering, operations research, and computer science who conduct data analysis to make decisions in their everyday work.

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[An introduction to stochastic processes. By M. S. Bartlett ...](#)

This leads to three equivalent definitions of a Poisson process, each of which gives special insights into the stochastic model. The exponential distribution plays a central role in the Poisson process. The thinned process is the superposition process obtained by merging, or adding, independent Poisson processes.

[Yates, Goodman: Probability and Stochastic Processes: A ...](#)

He is a co-author (with David Goodman) of the text [Probability and Stochastic Processes: A Friendly Introduction for Electrical and Computer Engineers](#) published by John Wiley and Sons. He is a co-recipient (with Christopher Rose and Sennur Ulukus) of the 2003 IEEE Marconi Prize Paper Award in Wireless Communications.

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This chapter contains sections titled: Definitions and Properties Discrete-Time Markov Chain Continuous-Time Markov Chains Poisson Process Renewal Processes Semi-Markov Process INTRODUCTION TO STOCHASTIC PROCESSES - Introduction to Probability and Stochastic Processes with Applications - Wiley Online Library

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