



ΣΤΟΧΑΣΤΙΚΕΣ ΔΙΑΔΙΚΑΣΙΕΣ

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METADATA

Title: Stochastic Processes

Other Titles: -

Language: Greek

ISBN: 978-960-603-169-4

Subject: MATHEMATICS AND COMPUTER SCIENCE

Keywords: Stochastic Processes / Markov Chains / Potential theory / Poisson Processes / Martingales



Bibliographic Reference: Loulakis, M. (2015). Stochastic Processes [Undergraduate textbook]. Kallipos, Open Academic Editions. <http://dx.doi.org/10.57713/kallipos-457>

Abstract

This book is an introduction to stochastic processes with emphasis on discrete time-discrete space Markov chain. We study transient and asymptotic properties of Markov chains using potential theory and martingale theory

and we present applications in Stochastic simulation (Markov Chain Monte Carlo), stochastic optimization (simulated annealing) and other sciences. The basic properties of Poisson processes are also studied.

