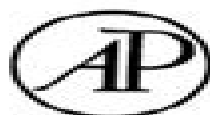


A SECOND COURSE IN STOCHASTIC PROCESSES

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STANFORD UNIVERSITY

HOWARD M. TAYLOR
CORNELL UNIVERSITY



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Second Course In Stochastic Processes

Samuel Karlin, Howard M. Taylor



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and using computer intensive methods whilst applying these principles this book explains how it is possible to derive new formulas expressed in terms of matrix algebra providing new insights into the classical Wright Fisher processes of evolutionary genetics Also covered are the development of new methods for studying genetics and evolution simulating nucleotide substitutions of a DNA molecule and on self regulating branching processes Components of natural selection are studied in terms of reproductive success of each genotype whilst also studying the differential ability of genotypes to compete for resources and sexual selection The concept of the gene is also reviewed in this book and it provides a current definition of a gene based on very recent experiments with micro array technologies A development of stochastic models for simulating the evolution of model genomes concludes the studies in this book Deserving of a place on the book shelves of workers in biomathematics applied probability stochastic processes and statistics as well as in bioinformatics and phylogenetics it will also be relevant to those interested in computer simulation and evolutionary biologists interested in quantitative methods

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No Free Lunch William A. Dembski, 2006-11 Darwin's greatest accomplishment was to show how life might be explained as the result of natural selection But does Darwin's theory mean that life was unintended William A Dembski argues that it does not In this book Dembski extends his theory of intelligent design Building on his earlier work in The Design Inference Cambridge 1998 he

defends that life must be the product of intelligent design Critics of Dembski s work have argued that evolutionary algorithms show that life can be explained apart from intelligence But by employing powerful recent results from the No Free Lunch Theory Dembski addresses and decisively refutes such claims As the leading proponent of intelligent design Dembski reveals a designer capable of originating the complexity and specificity found throughout the cosmos Scientists and theologians alike will find this book of interest as it brings the question of creation firmly into the realm of scientific debate *Sample Path Analysis and Distributions of Boundary Crossing Times* Shelemyahu Zacks,2017-10-12 This monograph is focused on the derivations of exact distributions of first boundary crossing times of Poisson processes compound Poisson processes and more general renewal processes The content is limited to the distributions of first boundary crossing times and their applications to various stochastic models This book provides the theory and techniques for exact computations of distributions and moments of level crossing times In addition these techniques could replace simulations in many cases thus providing more insight about the phenomena studied This book takes a general approach for studying telegraph processes and is based on nearly thirty published papers by the author and collaborators over the past twenty five years No prior knowledge of advanced probability is required making the book widely available to students and researchers in applied probability operations research applied physics and applied mathematics

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