Durrett Essentials Of Stochastic Processes

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Waymire Ronald J. MacGregor

this book is for a first course in stochastic processes taken by undergraduates or master s students who have had a course in probability theory it covers markov chains in discrete and continuous time poisson processes renewal processes martingales and mathematical finance one can only learn a subject by seeing it in action so there are a large number of examples and more than 300 carefully chosen exercises to deepen the reader s understanding the book has undergone a thorough revision since the first edition there are many new examples and problems with solutions that use the ti 83 to eliminate the tedious details of solving linear equations by hand some material that was too advanced for the level has been eliminated while the treatment of other topics useful for applications has been expanded in addition the ordering of topics has been improved for example the difficult subject of martingales is delayed until its usefulness can be seen in the treatment of mathematical finance richard durrett received his ph d in operations research from stanford in 1976 he taught at the ucla math department for nine years and at cornell for twenty five before moving to duke in 2010 he is the author of 8 books and almost 200 journal articles and has supervised more that 40 ph d students most of his current research concerns the applications of probability to biology ecology genetics and most recently cancer

this book is an english translation of kiyosi ito s monograph published in japanese in 1957 it gives a unified and comprehensive account of additive processes or levy processes stationary processes and markov processes which constitute the three most important classes of stochastic processes written by one of the leading experts in the field this volume presents to the reader lucid explanations of the fundamental concepts and basic results in each of these three major areasof the theory of stochastic processes with the requirements limited to an introductory graduate course on analysis especially measure theory and basic probability theory this book is an excellent text for any graduate course on stochastic processes kiyosi ito is famous throughout the world forhis work on stochastic integrals including the ito formula but he has made substantial contributions to other areas of probability theory as well such as additive processes stationary processes and markov processes especially diffusion processes which are topics covered in this book for his contributions and achievements he has received among others the wolf prize the japan academy prize and the kyoto prize

this book covers markov chains in discrete and continous time poisson processes renewal theory browian motion and martingales

this important book provides information necessary for those dealing with stochastic calculus and pricing in the models of financial markets operating under uncertainty introduces the reader to the main concepts notions and results of stochastic financial mathematics and develops applications of these results to various kinds of calculations required in financial engineering it also answers the requests of teachers of financial mathematics and engineering by making a bias towards probabilistic and statistical ideas and the methods of stochastic calculus in the analysis of market risks

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fundamentals of 6g communications introduces the next generation of wireless communication technologies beyond 5g the course explores terahertz communication artificial intelligence integration ultra low latency massive connectivity and quantum communication it provides insights into the architecture enabling technologies and applications of 6g networks for future smart systems including autonomous vehicles iot and immersive extended reality

many aspects of phenomena critical to our lives can not be measured directly fortunately models of these phenomena together with more limited obs vations frequently allow us to make reasonable inferences about the state of the systems that a ect us the process of using partial observations and a stochastic model to make inferences about an evolving system is known as stochastic ltering the objective of this text is to assist anyone who would like to become familiar with the theory of stochastic ltering whether graduate student or more experienced scientist the majority of the fundamental results of the subject are presented using modern methods making them readily available for reference the book may also be of interest to practitioners of stochastic ltering who wish to gain a better understanding of the underlying theory stochastic ltering in continuous time relies heavily on measure theory stochasticprocessesandstochasticcalculus whileknowledgeofbasicmeasure theory and probability is assumed the text is largely self contained in that the majority of the results needed are stated in two appendices this should make it easy for the book to be used as a graduate teaching text with this in mind each chapter contains a number of exercises with solutions detailed at the end of the chapter

the sixth volume of rudolf ahlswede s lectures on information theory is focused on identification theory in contrast to shannon s classical coding scheme for the transmission of a message over a noisy channel in the theory of identification the decoder is not really interested in what the received message is but only in deciding whether a message which is of special interest to him has been sent or not there are also algorithmic problems where it is not necessary to calculate the solution but only to check whether a certain given answer is correct depending on the problem this answer might be much easier to give than finding the solution easier in this context means using fewer resources like channel usage computing time or storage space ahlswede and dueck s main result was that in contrast to transmission problems where the possible code sizes grow exponentially fast with block length the size of identification codes will grow doubly exponentially fast the theory of identification has now developed into a sophisticated mathematical discipline with many branches and facets forming part of the post shannon theory in which ahlswede was one of the leading experts new discoveries in this theory are motivated both by concrete engineering problems and by explorations of the inherent properties of the mathematical structures rudolf ahlswede wrote it seems that the whole body of present day information theory will undergo serious revisions and some dramatic expansions in this book we will open several directions of future research and start the mathematical description of communication models in great generality for some specific problems we provide solutions or ideas for their solutions the lectures presented in this work which consists of 10 volumes are suitable for graduate students in mathematics and also for those working in theoretical computer science physics and electrical engineering with abackground in basic mathematics the lectures can be used as the basis for courses or to supplement courses in many ways ph d students will also find research problems often with conjectures that offer potential subjects for a thesis more advanced researchers may find questions which form the basis of entire research programs the book also contains an afterword by gunter dueck

containing numerous worked examples and exercises this text aims to help students improve their understanding of key concepts and to develop stronger mathematical skills

incorporating more than 20 years of the editors and contributors statistical work in mixed membership modeling this handbook shows how to use these flexible modeling tools to uncover hidden patterns in modern high dimensional multivariate data it explores the use of the models in various application settings including survey data population genetics text

analysis image processing and annotation and molecular biology through examples using real data sets readers will discover how to characterize complex multivariate data in a range of areas

probability and partial differential equations in modern applied mathematics is devoted to the role of probabilistic methods in modern applied mathematics from the perspectives of both a tool for analysis and as a tool in modeling there is a recognition in the applied mathematics research community that stochastic methods are playing an increasingly prominent role in the formulation and analysis of diverse problems of contemporary interest in the sciences and engineering a probabilistic representation of solutions to partial differential equations that arise as deterministic models allows one to exploit the power of stochastic calculus and probabilistic limit theory in the analysis of deterministic problems as well as to offer new perspectives on the phenomena for modeling purposes there is also a growing appreciation of the role for the inclusion of stochastic effects in the modeling of complex systems this has led to interesting new mathematical problems at the interface of probability dynamical systems numerical analysis and partial differential equations this volume will be useful to researchers and graduate students interested in probabilistic methods dynamical systems approaches and numerical analysis for mathematical modeling in the sciences and engineering

theoretical mechanics of biological neural networks presents an extensive and coherent discusson and formulation of the generation and integration of neuroelectric signals in single neurons the approach relates computer simulation programs for neurons of arbitrary complexity to fundamental gating processes of transmembrance ionic fluxes of synapses of excitable membranes listings of representative computer programs simulating arbitrary neurons and local and composite neural networks are included develops a theory of dynamic similarity for characterising the firing rate sensitivites of neurons in terms of their characteristic anatomical and physiological parameters presents the sequential configuration theory a theoretical presentation of coordinated firing patterns in entire neural population presents the outlines of mechanics for multiple interacting networks in composite systems

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