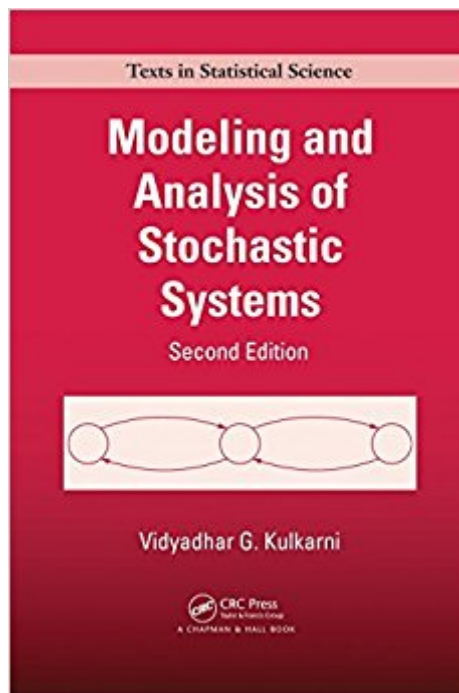




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Modeling And Analysis Of Stochastic Systems, Second Edition (Chapman & Hall/CRC Texts In Statistical Science)



Synopsis

Based on the author's more than 25 years of teaching experience, *Modeling and Analysis of Stochastic Systems, Second Edition* covers the most important classes of stochastic processes used in the modeling of diverse systems, from supply chains and inventory systems to genetics and biological systems. For each class of stochastic process, the text includes its definition, characterization, applications, transient and limiting behavior, first passage times, and cost/reward models. Along with reorganizing the material, this edition revises and adds new exercises and examples. New to the second edition: a new chapter on diffusion processes that gives an accessible and non-measure-theoretic treatment with applications to finance; a more streamlined, application-oriented approach to renewal, regenerative, and Markov regenerative processes; and, two appendices that collect relevant results from analysis and differential and difference equations. Rather than offer special tricks that work in specific problems, this book provides thorough coverage of general tools that enable the solution and analysis of stochastic models. After mastering the material in the text, students will be well-equipped to build and analyze useful stochastic models for various situations. A collection of MATLAB[registered]-based programs can be downloaded from the author's website and a solutions manual is available for qualifying instructors.

Book Information

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Customer Reviews

This book is written by a well-experienced scientist and teacher. The material is carefully chosen and presented in a systematic way, starting with the basics and reaching more advanced topics. ? It is very useful to see a large number of examples worked out in detail. Thus, besides university courses, the book can be successfully used for self-education. ? This book is a good example of how to write on sophisticated topics about stochastic processes without involving the heavy measure theoretic machinery. Another advantage of the book is the application-oriented approach that is followed by the author. ? This book can be strongly recommended for introductory, intermediate or advanced university courses on stochastic processes. Both students and their teachers may benefit considerably from it. ?Journal of the Royal Statistical Society: Series A, July 2011? an accessible, well paced, and very nicely presented book. The publishers are also to be commended on its nice production:

Vidyadhar G. Kulkarni is a Norman Johnson Professor in the Department of Statistics and Operations Research at the University of North Carolina at Chapel Hill.

I notice a lot of the reviewers here are professors. As a student, my opinion of this book is that it is very difficult to understand without a mentor to guide you through it. The book consists of derivations of theorems and then examples. I don't find the derivations or examples particularly satisfying because there is very little illustration with why the math means. It takes a little imagination and a lot of patience to work through every page. The problems after each chapter are much more complex than the examples worked throughout the chapter and can be quite frustrating especially when you consider the numerous typos and errors. Not all of the problems have solutions provided in the back and the solutions that do exist are just the answers--no analyses or explanations. You would have to get the solutions manual if you wanted to tackle this on your own. Bottom line, it is not a beginner text and is fairly difficult to get through.

Good work for engineering. Pretty easy to follow. Needs a text on matrix manipulation to compliment, however. This text isn't self-contained.

Good

this book is complex and sucks

The book arises from lectures at UNC-CH in a two-semester course on stochastic models. The author has exceptional precision and organization in the classroom, and this comes through in the book. Great book for teaching from, as well as learning from. This book also takes a step which more venerable texts, such as the Trivedi book or the Ross series could not -- it has computational exercises suitable for math packages like Mathematica. Thus, the student can be introduced to scientific computer literacy as well as stochastic processes. I recommend this book to anyone interested in teaching today's student, or for preparing themselves for challenges in Operations Research. The book would make an above-average reference as well. Mike Bailey Associate Professor, Naval Postgraduate School

I used this book in a graduate course on Stochastic processes. The book would rate as average or just above that as I found it to be insufficient for a start in the subject unless you were in a classroom course. It does assume some background in probability. Also, the explanations, while complete, are not as easy to understand as the Ross book. I also found that the examples were extremely easy as compared to the exercise problems. This makes it tougher to 'extrapolate' and understand. It has one nice feature though- solutions to half the problems are there at the end of the book making it better for students while giving faculty leeway too. The exercises are quite comprehensive too. I'd say this is an excellent book for someone with some prior knowledge of Stochastic Processes. For a beginner, this may not be the best start.

This is a good book. It has concentrated on the modeling aspect a lot. But if you lack a little basics or aren't comfortable with the Probability & Statistics, you would have to study them first and then acquire this. This book takes it for granted that you are thorough with your basics. Therefore for students who performed average in prob& statistics, get your basics done before taking this up. But trust me, this is a good book about Stochastic processes.

I've bought this book for my Stochastic class. It is useful and consisting lots of exercises and you can even find the answers of the odd questions at the back of the book as the others.

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