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Subjects include sample spaces, probabilities distributions and expectations of random variables, conditional expectations, Markov chains, and the Poisson process. Additional topics encompass continuous-time stochastic processes, birth and death processes, steady-state probabilities, general queuing systems, and renewal processes. Each section features worked examples, and exercises appear at the end of each chapter, with numerical solutions at the back of the book.

Suggestions for further reading in stochastic processes, simulation, and various applications also appear at the end.

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Introduction to Stochastic Models: Second Edition (Dover Books on Mathematics) By Roe Goodman, Mathematics Bibliography

- Sales Rank: #2060709 in Books
- Published on: 2006-04-21
- Released on: 2006-04-21
- Original language: English
- Number of items: 1
- Dimensions: 9.22" h x .73" w x 6.12" l, 1.02 pounds
- Binding: Paperback
- 368 pages

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