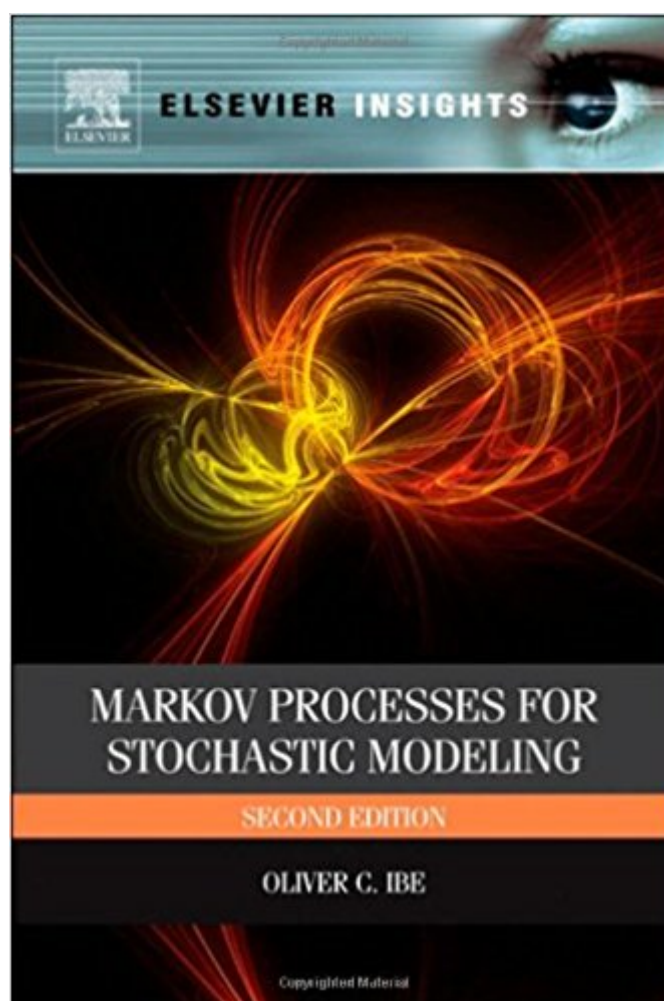


The book was found

Markov Processes For Stochastic Modeling, Second Edition (Elsevier Insights)



Synopsis

Markov processes are processes that have limited memory. In particular, their dependence on the past is only through the previous state. They are used to model the behavior of many systems including communications systems, transportation networks, image segmentation and analysis, biological systems and DNA sequence analysis, random atomic motion and diffusion in physics, social mobility, population studies, epidemiology, animal and insect migration, queueing systems, resource management, dams, financial engineering, actuarial science, and decision systems. Covering a wide range of areas of application of Markov processes, this second edition is revised to highlight the most important aspects as well as the most recent trends and applications of Markov processes. The author spent over 16 years in the industry before returning to academia, and he has applied many of the principles covered in this book in multiple research projects. Therefore, this is an applications-oriented book that also includes enough theory to provide a solid ground in the subject for the reader. Presents both the theory and applications of the different aspects of Markov processes. Includes numerous solved examples as well as detailed diagrams that make it easier to understand the principle being presented. Discusses different applications of hidden Markov models, such as DNA sequence analysis and speech analysis.

Book Information

Series: Elsevier Insights

Hardcover: 514 pages

Publisher: Elsevier; 2 edition (June 17, 2013)

Language: English

ISBN-10: 0124077951

ISBN-13: 978-0124077959

Product Dimensions: 6 x 1.1 x 9 inches

Shipping Weight: 1.9 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 2 customer reviews

Best Sellers Rank: #1,126,922 in Books (See Top 100 in Books) #106 in Books > Science & Math > Mathematics > Applied > Stochastic Modeling #914 in Books > Science & Math > Mathematics > History #3128 in Books > Textbooks > Science & Mathematics > Mathematics > Statistics

Customer Reviews

"Markov processes are the most popular modeling tools for stochastic systems in many different

fields, and Ibe compiles in a single volume many of the Markovian models used in different disciplines. The information could be useful to graduate students and researchers in any field that uses Markov processes, he says, but he was thinking particularly of those in traffic engineering, image analysis, bioinformatics, biostatistics, financial engineering, and computational biology."--Reference & Research Book News, October 2013

Dr Ibe has been teaching at U Mass since 2003. He also has more than 20 years of experience in the corporate world, most recently as Chief Technology Officer at Sineria Networks and Director of Network Architecture for Spike Broadband Corp.

I recommend this book for graduate and undergraduate students that need a complete reference about Markov Process.

It is the one of the best book about stochastic processes I've ever read, it's simple and practical with many example. Actually this is a very good book for learning

[Download to continue reading...](#)

Markov Processes for Stochastic Modeling, Second Edition (Elsevier Insights) Markov Models: Understanding Data Science, Markov Models, and Unsupervised Machine Learning in Python Markov Models: An Introduction to Markov Models Markov Chains and Stochastic Stability (Cambridge Mathematical Library) Diffusions, Markov Processes, and Martingales: Volume 1, Foundations (Cambridge Mathematical Library) Stochastic Simulation: Algorithms and Analysis (Stochastic Modelling and Applied Probability, No. 57) (No. 100) Continuous-time Stochastic Control and Optimization with Financial Applications (Stochastic Modelling and Applied Probability) A First Course in Stochastic Processes, Second Edition Modeling and Analysis of Stochastic Systems, Second Edition (Chapman & Hall/CRC Texts in Statistical Science) Fundamentals of Probability, with Stochastic Processes (3rd Edition) Stochastic Processes in Physics and Chemistry, Third Edition (North-Holland Personal Library) Telemental Health: Clinical, Technical, and Administrative Foundations for Evidence-Based Practice (Elsevier Insights) Exceptional Life Journeys: Stories of Childhood Disorder (Elsevier Insights) The Agronomy and Economy of Turmeric and Ginger: The Invaluable Medicinal Spice Crops (Elsevier Insights) â œVenomous” Bites from Non-Venomous Snakes: A Critical Analysis of Risk and Management of â œColubrid” Snake Bites (Elsevier Insights) A Handbook of Magnetochemical Formulae (Elsevier Insights) An Introduction to Stochastic Modeling, Fourth Edition Modeling and Analysis of Stochastic Systems,

Third Edition (Chapman & Hall/CRC Texts in Statistical Science) Stochastic Processes: Theory for Applications Stochastic Processes

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)