Stochastic Modelling for Systems Biology, Second Edition

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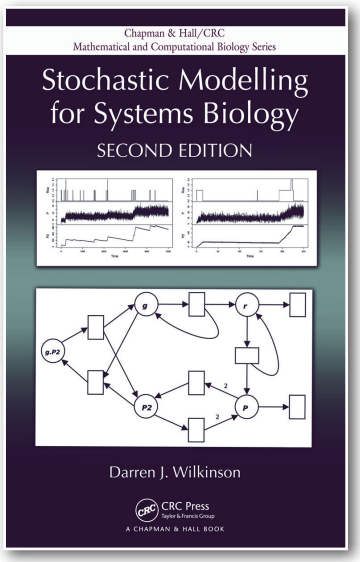
This book provides an accessible introduction to the use of stochastic processes for modeling biological systems, such as genetic and biochemical networks. This second edition includes improvements to the chapters on kinetics and approximate algorithms. It also greatly expands the coverage of statistical inference, including material on network inference and parameter inference. Updated computing aspects include the use of the new SBML Level 3.



Key Features

- Focuses on computer simulation, with R and SBML code
- Includes exercises and many biologically motivated examples
- Presents enhanced material on statistical inference

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All Chapters include Exercises and Further Reading