



Deterministic Versus Stochastic Modelling in Biochemistry and Systems Biology (Woodhead Publishing Series in Biomedicine)

Paulo Lecca, Ian Laurenzi, Ferenc Jordan

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Stochastic kinetic methods are currently considered to be the most realistic and elegant means of representing and simulating the dynamics of biochemical and biological networks. Deterministic versus stochastic modelling in biochemistry and systems biology introduces and critically reviews the deterministic and stochastic foundations of biochemical kinetics, covering applied stochastic process theory for application in the field of modelling and simulation of biological processes at the molecular scale. Following an overview of deterministic chemical kinetics and the stochastic approach to biochemical kinetics, the book goes on to discuss the specifics of stochastic simulation algorithms, modelling in systems biology and the structure of biochemical models. Later chapters cover reaction-diffusion systems, and provide an analysis of the Kinfer and BlenX software systems. The final chapter looks at simulation of ecodynamics and food web dynamics.

- Introduces mathematical concepts and formalisms of deterministic and stochastic modelling through clear and simple examples
- Presents recently developed discrete stochastic formalisms for modelling biological systems and processes
- Describes and applies stochastic simulation algorithms to implement a stochastic formulation of biochemical and biological kinetics

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