



Mathematical Models in Biology Deterministic and Stochastic Approaches Lecture Notes on Mathematical Modelling in the Life Sciences

By Johannes Muller

Springer. Hardcover. Book Condition: New. Hardcover. 480 pages. This book developed from classes in mathematical biology taught by the authors over several years at the Technische Universitt Mnchen. The main themes are modeling principles, mathematical principles for the analysis of these models, and model-based analysis of data. The key topics of modern biomathematics are covered: ecology, epidemiology, biochemistry, regulatory networks, neuronal networks, and population genetics. A variety of mathematical methods are introduced, ranging from ordinary and partial differential equations to stochastic graph theory and branching processes. A special emphasis is placed on the interplay between stochastic and deterministic models. This item ships from multiple locations. Your book may arrive from Roseburg,OR, La Vergne,TN. Hardcover.



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