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Mathematical Models in Population Biology and Epidemiology (Texts in Applied Mathematics Book 40) eBook: Brauer, Fred, Castillo-Chavez, Carlos: Amazon.co.uk: Kindle Store

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The formulation, analysis, and re-evaluation of mathematical models in population biology has become a valuable source of insight to mathematicians and biologists alike. This book presents an overview and selected sample of these results and ideas, organized by biological theme rather than mathematical concept, with an emphasis on helping the reader develop appropriate modeling skills through use of well-chosen and varied examples.

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This textbook provides an introduction to the field of mathematical biology through the integration of classical applications in ecology with more recent applications to epidemiology, particularly in the context of spread of infectious diseases. It integrates modeling, mathematics, and applications in a semi-rigorous way, stating theoretical results and giving references but not necessarily giving detailed proofs, providing a solid introduction to the field to undergraduates (junior and ...

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Mathematical and theoretical biology - Wikipedia

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MATHEMATICALMODELSINBIOLOGY ANINTRODUCTION

Single population models are, in some sense, the building blocks of more realistic models -- the subject of Part II. Their role is fundamental to the study of ecological and demographic processes including the role of population structure and spatial heterogeneity -- the subject of Part III.

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