

The Basic Approach to Age-Structured Population Dynamics

By Mimmo Iannelli

Springer-Verlag Gmbh Sep 2017, 2017. Taschenbuch. Condition: Neu. Neuware - This book provides an introduction to age-structured population modeling which emphasizes the connection between mathematical theory and underlying biological assumptions. Through the rigorous development of the linear theory and the nonlinear theory alongside numerics, the authors explore classical equations that describe the dynamics of certain ecological systems. Modeling aspects are discussed to show how relevant problems in the fields of demography, ecology and epidemiology can be formulated and treated within the theory. In particular, the book presents extensions of age-structured modeling to the spread of diseases and epidemics while also addressing the issue of regularity of solutions, the asymptotic behavior of solutions, and numerical approximation. With sections on transmission models, non-autonomous models and global dynamics, this book fills a gap in the literature on theoretical population dynamics. The Basic Approach to Age-Structured Population Dynamics will appeal to graduate students and researchers in mathematical biology, epidemiology and demography who are interested in the systematic presentation of relevant models and mathematical methods. 350 pp. Englisch.



Reviews

Completely one of the best publication I have actually read. Indeed, it is perform, nonetheless an interesting and amazing literature. Your lifestyle span will likely be transform when you complete reading this book. -- **Mrs. Agustina Kemmer V**

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An exceptional book and also the font utilized was intriguing to read. This is for all who statte there was not a worth reading. It is extremely difficult to leave it before concluding, once you begin to read the book. -- Prof. Tyson Hilpert

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