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This research monograph provides an introduction to the theory of nonautonomous semiflows with applications to population dynamics. It develops dynamical system approaches to various evolutionary equations such as difference, ordinary, functional, and partial differential equations, and pays more attention to periodic and almost

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periodic phenomena.

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Population dynamics is an important subject in mathematical biology. A central problem is to study the long-term behavior of modeling systems. Most of these systems are governed by various evolutionary equations such as difference, ordinary, functional, and partial differential equations (see, e. g. , [165, 142, 218, 119, 55]).

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Dynamical Systems in Population Biology, 2nd Edition by Xiao-Qiang Zhao
CMS Books in Mathematics, Springer,
2017 ISBN 978-3-319-56432-6.

Reviewed by Frithjof Lutscher, University of Ottawa. It is by now widely accepted that many interesting problems in population biology can be formulated in the language of dynamical systems.

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As we illustrated in the Preface, some population models can generate

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continuous- or discrete-time dynamical systems with monotonicity: Ordered initial states lead to ordered subsequent states ...

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In many situations in biology, however, the population only changes at discrete moments in time, such as each spring when new members of the population are born. Such situations are often described by a discrete dynamical system, in which the population at a certain stage is determined by the population at a previous stage.

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Chapter 14: Discrete Dynamical Systems

At any given time, a dynamical system has a state given by a tuple of real numbers (a vector) that can be represented by a point in an appropriate state space (a geometrical manifold). The evolution rule of the dynamical system is a function that

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Dynamical Systems in Population Biology Xiao-Qiang Zhao (auth.) The conjoining of nonlinear dynamics and biology has brought about significant advances in both areas, with nonlinear dynamics providing a tool for understanding biological phenomena and biology stimulating developments in the theory of dynamical systems.

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on Dynamical Systems with Applications to Biology and Medicine. Many questions about biological processes can be phrased in terms of dynamical systems. The evolution of these processes and the stability of their long-term behavior can be studied in terms of dynamical systems theory. Since the goal

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Therefore, if s_t is the number of squirrels in year t , the population evolves according to the dynamical system $s_{t+1} - s_t = r s_t (1 - s_t/N)$. Calculate the equilibria of the dynamical system. If $r = 1.5$, determine the

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stability of the equilibria.

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