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Introduction.

Many biologists

and ecologists

have developed

models that find

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widespread use
in theoretical
investigations
and in
applications to
organism
behavior,
disease control,
population and
metapopulation
theory,
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dynamics, and
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management. This book captures and extends the process of model development by concentrating on the dynamic aspects of these processes and by providing tools that virtually anyone with basic knowledge in the Life

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Time-discrete

dynamic systems

models have long

been used in

biology.

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simulations

require careful

consideration as

to the level of

detail necessary

for a

representative

model, because

unnecessary

detail will lead

to models so

complex that

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numerical study

would become

highly

cumbersome or

impossible.

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In mathematics,

a dynamical

system is a

system in which

a function

describes the

time dependence

of a point in a

geometrical

space. Examples

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include the mathematical models that describe the swinging of a clock pendulum, the flow of water in a pipe, and the number of fish each springtime in a lake. At any given time, a dynamical system

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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 r

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