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Modelling Population Dynamics - Model Formulation, Fitting and Assessment using State-Space Methods | Ken Newman | Springer. Methods in Statistical Ecology. Provides unifying framework for estimating the abundance of open populations that are subject to births, deaths and movement in and

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Methods in Statistical Ecology

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Modelling Population Dynamics: Model Formulation, Fitting ...
The book goes well beyond estimation of abundance, allowing inference on underlying population processes such as birth or recruitment, survival and movement. This requires the formulation and fitting of population dynamics models.

Modelling Population Dynamics: Model Formulation, Fitting ...
Introduction. This book gives a unifying framework for estimating the abundance of open populations: populations subject to births, deaths and movement, given imperfect measurements or samples of the populations. The focus is primarily on populations of vertebrates for which dynamics are typically modelled within the framework of an annual cycle, and for which stochastic variability in the demographic processes is usually modest.

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Modelling Population Dynamics | SpringerLink

Population dynamics has traditionally been the dominant branch of mathematical biology, which has a history of more than 220 years, although more recently the scope of mathematical biology has greatly expanded. The beginning of population dynamics is widely regarded as the work of Malthus, formulated as the Malthusian growth model.

Population dynamics - Wikipedia

Modelling Population Dynamics: Model Formulation, Fitting and Assessment Using State-Space

Methods: Newman, K B, Buckland, Professor of Statistics and Director of the Centre for Research Into Ecological and Environmental Modelling S T, Morgan, B J T, King, Borchers, D L, Cole, D J, Besbeas, P, Gimenez, O, Thomas: Amazon.nl

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Modeling Population Dynamics - UvA

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In this paper, a mathematical model for the transmission dynamics of corruption in a population was formulated. The basic reproduction number was computed, and the stability of equilibrium points was investigated. Through Lyapunov's theory, the corruption-free equilibrium point is globally asymptotically stable whenever was proven.

Mathematical Modeling, Analysis, and Optimal Control of ...

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Population dynamics studies the changes in size and composition of populations through time, as well as the biotic and abiotic factors influencing those changes. For the past few centuries, ordinary differential equations (ODEs) have served well as models of both single-species and multispecies population dynamics.

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The vast majority of studies has modelled bat virus transmission dynamics at the population level, though a few nested within-host models of viral pathogenesis in population-level frameworks, and one study focused on purely within-host dynamics. Population-level studies described bat virus systems from every continent but Antarctica, though ...

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