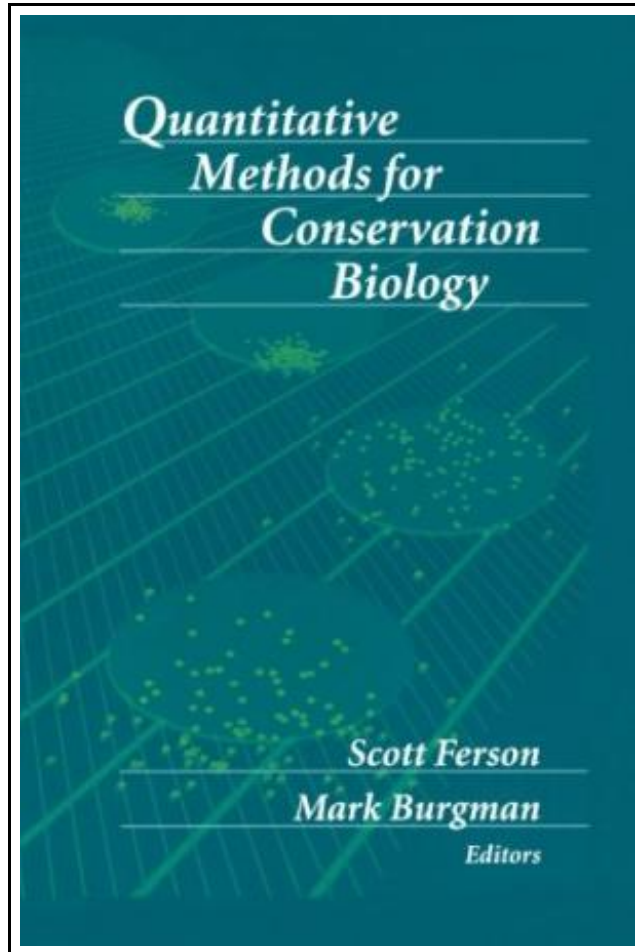


## Quantitative Methods for Conservation Biology



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Book Condition: New. Publisher/Verlag: Springer, Berlin | This is one of the first books to review the quantitative tools used in the study of such subjects as biodiversity, resource management, and endangered species preservation. The topics covered include population viability analysis, population dynamics, metapopulation models, estimating risks and timing of extinctions, quasi-extinction, recovery dynamics, land use, population genetics and the genetics of bottleneck populations. Now reprinted in softcover, the book remains of great interest to graduate students and practicing biologists working in conservation biology, ecology, and natural resources. | Quantitative methods are needed in conservation biology more than ever as an increasing number of threatened species find their way onto international and national "red lists. " Objective evaluation of population decline and extinction probability are required for sound decision making. Yet, as our colleague Selina Heppell points out, population viability analysis and other forms of formal risk assessment are underused in policy formation because of data uncertainty and a lack of standardized methodologies and unambiguous criteria (i. e. , "rules of thumb"). Models used in conservation biology range from those that are purely heuristic to some that are highly predictive. Model selection should be dependent on the questions being asked and the data that are available. We need to develop a toolbox of quantitative methods that can help scientists and managers with a wide range of systems and that are subject to varying levels of data uncertainty and environmental variability. The methods outlined in the following chapters represent many of the tools needed to fill that toolbox. When used in conjunction with adaptive management, they should provide information for improved monitoring, risk assessment, and evaluation of management alternatives. The first two chapters describe the application of methods for detecting trends and extinctions from sighting data. Presence/absence data are used in...



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