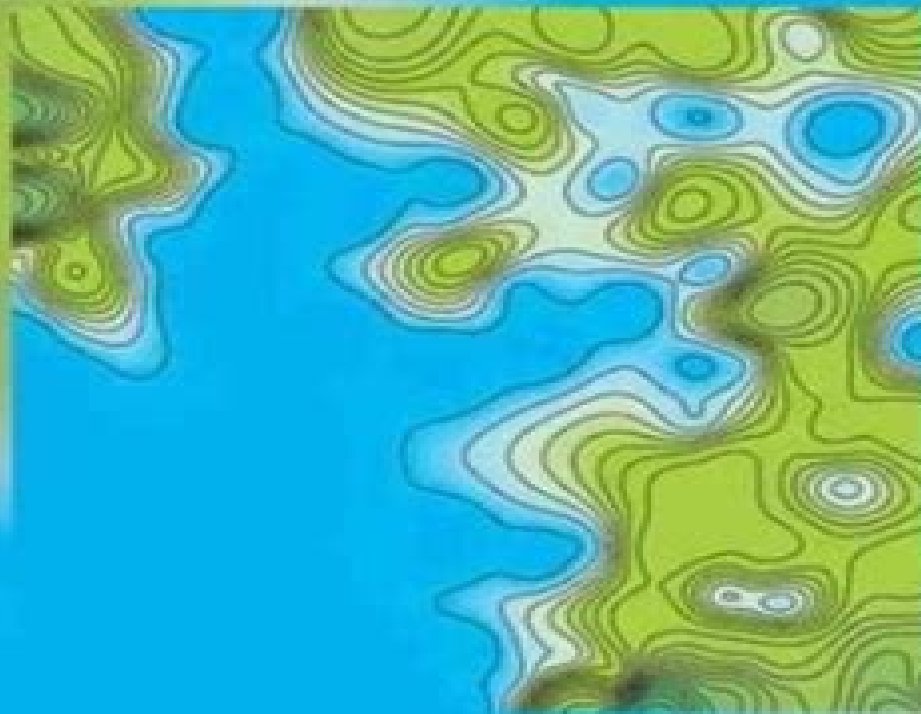




Spatial Analysis

A Guide for Ecologists

Marie-Josée Fortin and Mark Dale

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Population Ecology in Practice Dennis L. Murray, Brett K. Sandercock, 2020-02-10 A synthesis of contemporary analytical and modeling approaches in population ecology The book provides an overview of the key analytical approaches that are currently used in demographic genetic and spatial analyses in population ecology The chapters present current problems introduce advances in analytical methods and models and demonstrate the applications of quantitative methods to ecological data The book covers new tools for designing robust field studies estimation of abundance and demographic rates matrix population models and analyses of population dynamics and current approaches for genetic and spatial analysis Each chapter is illustrated by empirical examples based on real datasets with a companion website that offers online exercises and examples of computer code in the R statistical software platform Fills a niche for a book that emphasizes applied aspects of population analysis Covers many of the current methods being used to analyse population dynamics and structure Illustrates the application of specific analytical methods through worked examples based on real datasets Offers readers the opportunity to work through examples or adapt the routines to their own datasets using computer code in the R statistical platform Population Ecology in Practice is an excellent book for upper level undergraduate and graduate students taking courses in population ecology or ecological statistics as

well as established researchers needing a desktop reference for contemporary methods used to develop robust population assessments **Spatial Ecology and Conservation Modeling** Robert Fletcher, Marie-Josée Fortin, 2019-02-15 This book provides a foundation for modern applied ecology Much of current ecology research and conservation addresses problems across landscapes and regions focusing on spatial patterns and processes This book is aimed at teaching fundamental concepts and focuses on learning by doing through the use of examples with the software R It is intended to provide an entry level easily accessible foundation for students and practitioners interested in spatial ecology and conservation **Spatial Analysis** ,1977

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