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S. Engen

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Terrance J. Quinn, Richard B. Deriso



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stochastic population dynamics combining classical background material with a variety of modern approaches including new and previously unpublished results by the authors illustrated with examples from bird and mammal populations and insect communities Demographic and environmental stochasticity are introduced with statistical methods for estimating them from field data The long run growth rate of a population is explained and extended to include age structure with both demographic and environmental stochasticity Diffusion approximations facilitate the analysis of extinction dynamics and the duration of the final decline Methods are developed for estimating delayed density dependence from population time series using life history data Metapopulation viability and the spatial scale of population fluctuations and extinction risk are analyzed Stochastic dynamics and statistical uncertainty in population parameters are incorporated in Population Viability Analysis and strategies for sustainable harvesting Statistics of species diversity measures and species abundance distributions are described with implications for rapid assessments of biodiversity and methods are developed for partitioning species diversity into additive components Analysis of the stochastic dynamics of a tropical butterfly community in space and time indicates that most of the variance in the species abundance distribution is due to ecological heterogeneity among species so that real communities are far from neutral

Multiple Species Abundance Models with Flexible Stochastic Generators Atchamamba Yarram, 2005 Quantitative Fish Dynamics Terrance J. Quinn, Richard B. Deriso, 1999 The fields of fish population dynamics and stock assessment have seen major advances in the 1980s and 1990s creating the need for a new synthesis This text attempts that synthesis by presenting a contemporary approach for quantitative fisheries science that incorporates modern statistical and mathematical techniques It emphasizes the link between biology and theory by explaining the assumptions inherent in the quantitative methods and models The book covers key topics that are often overlooked in other texts such as optimal harvesting migratory stocks and complex age and size structured models Quantitative Fish Dynamics is an ideal textbook for graduate and undergraduate courses in fish population dynamics and stock assessment It is an indispensable reference work for fisheries scientists and others interested in conservation biology fish and wildlife management population ecology and statistical applications

Asymptotic Analysis of Mixed Effects Models Jiming Jiang, 2017-09-19 Large sample techniques are fundamental to all fields of statistics Mixed effects models including linear mixed models generalized linear mixed models non linear mixed effects models and non parametric mixed effects models are complex models yet these models are extensively used in practice This monograph provides a comprehensive account of asymptotic analysis of mixed effects models The monograph is suitable for researchers and graduate students who wish to learn about asymptotic tools and research problems in mixed effects models It may also be used as a reference book for a graduate level course on mixed effects models or asymptotic analysis

Advances in Ecological Research, 1993-06-10 The six articles in this issue of Advances in Ecological Research cover a wide spectrum of ecology to ecology to communities the discussion of vegetation change on a longer time scale and the significance of conservation

especially in the industrialized world S J Hall and D G Raff provide something of interest to all ecologists Several common themes are presented in this volume including the dynamics of communities with such examples as Glacier Bat and Mount St Helens SPECIAL FEATURES Lively selection of review on topical subjects **Hidden Markov Models for Time Series**

Walter Zucchini,Iain L. MacDonald,Roland Langrock,2017-12-19 Hidden Markov Models for Time Series An Introduction Using R Second Edition illustrates the great flexibility of hidden Markov models HMMs as general purpose models for time series data The book provides a broad understanding of the models and their uses After presenting the basic model formulation the book covers estimation forecasting decoding prediction model selection and Bayesian inference for HMMs Through examples and applications the authors describe how to extend and generalize the basic model so that it can be applied in a rich variety of situations The book demonstrates how HMMs can be applied to a wide range of types of time series continuous valued circular multivariate binary bounded and unbounded counts and categorical observations It also discusses how to employ the freely available computing environment R to carry out the computations Features Presents an accessible overview of HMMs Explores a variety of applications in ecology finance epidemiology climatology and sociology Includes numerous theoretical and programming exercises Provides most of the analysed data sets online New to the second edition A total of five chapters on extensions including HMMs for longitudinal data hidden semi Markov models and models with continuous valued state process New case studies on animal movement rainfall occurrence and capture recapture data

MATHEMATICAL MODELS - Volume III Jerzy A. Filar,Jacek B Krawczyk,2009-09-19 Mathematical Models is a component of Encyclopedia of Mathematical Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Mathematical Models discusses matters of great relevance to our world such as Basic Principles of Mathematical Modeling Mathematical Models in Water Sciences Mathematical Models in Energy Sciences Mathematical Models of Climate and Global Change Infiltration and Ponding Mathematical Models of Biology Mathematical Models in Medicine and Public Health Mathematical Models of Society and Development These three volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

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