

A Primer Of Ecological Statistics By Nicholas J Gotelli

Primer of Ecological Theory
Primer of Ecological Restoration
A Primer For Environmental Literacy
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SER International Primer on Ecological Restoration
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Nature Handbook of Aluminum Bonding Technology and Data
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presents an overview of ecological modeling as it relates to current ecological theory key topics a primer of ecological theory maintains its scientific objectivity while covering the full extent of current ecological modeling theory the book introduces the use of computer technology to ecological modeling through matlab this allows all work to be verified and the skills transferred to other disciplines market a valuable resource book for ecologists resource managers and economists

the pace intensity and scale at which humans have altered our planet in recent decades is unprecedented we have dramatically transformed landscapes and waterways through agriculture logging mining and fire suppression with drastic impacts on public health and human well being what can we do to counteract and even reverse the worst of these effects restore damaged ecosystems the primer of ecological restoration is a succinct introduction to the theory and practice of ecological restoration as a strategy to conserve biodiversity and ecosystems in twelve brief chapters the book introduces readers to the basics of restoration project planning monitoring and adaptive management it explains abiotic factors such as landforms soil and hydrology that are the building blocks to successfully recovering microorganism plant and animal communities additional chapters cover topics such as invasive species and legal and financial considerations each chapter concludes with recommended reading and reference lists and the book can be paired with online resources for teaching perfect for introductory classes in ecological restoration or for practitioners seeking constructive guidance for real world projects primer of ecological restoration offers accessible practical information on recent trends in the field

this broad ranging book presents the key concepts of environmental science in an accessible style that can be understood by those who are not natural scientists it offers a way to improve environmental literacy the capacity to understand the connections between humans and their environment the book which includes a reading list for each topic is ideal for the student or general reader interested in learning more about the environment and how to value it

including both simple and more advanced problems this is a concise but detailed exposition of the most common mathematical models in population and community ecology

a primer of ecological statistics second edition explains fundamental material in probability theory experimental design and parameter estimation for ecologists and environmental scientists the book emphasizes a general introduction to probability theory and provides a detailed discussion of specific designs and analyses that are typically encountered in ecology and environmental science appropriate for use as either a stand alone or supplementary text for upper division undergraduate or graduate courses in ecological and environmental statistics ecology environmental science environmental studies or experimental design the primer also serves as a resource for environmental professionals who need to use and interpret statistics daily but have little or no formal training in the subject the book is divided into four parts part i discusses the fundamentals of probability and statistical thinking it introduces the logic and language of probability chapter 1 explains common statistical distributions used in ecology chapter 2 and important measures of central tendency and spread chapter 3 explains p values hypothesis testing and statistical errors chapter 4 and introduces frequentist bayesian and monte carlo methods of analysis chapter 5 part ii discusses how to successfully design and execute field experiments and sampling studies topics include design strategies chapter 6 a bestiary of experimental designs chapter 7 and transformations and data management chapter 8 part iii discusses specific analyses and covers the material that is the main core of most statistics texts topics include regression chapter 9 analysis of variance chapter 10 categorical data analysis chapter 11 and multivariate analysis chapter 12 part iv new to this edition discusses two central topics in estimating important ecological metrics topics include quantification of biological diversity chapter 13 and estimating occupancy detection probability and population sizes from marked and unmarked populations chapter 14 the book includes a comprehensive glossary a mathematical appendix on matrix algebra and extensively annotated tables and figures footnotes introduce advanced and ancillary material some are purely historical others cover mathematical statistical proofs or details and still others address current topics in the ecological literature data files and code used for some of the examples as well as errata are available online

ecology is more quantitative and theory driven than ever before and a primer of ecology with r combines an introduction to the major theoretical concepts in general ecology with a cutting edge open source tool the r programming language starting with geometric growth and proceeding through stability of multispecies interactions and species abundance distributions this book demystifies and explains fundamental ideas in population and community ecology graduate students in ecology along with upper division undergraduates and faculty will find this to be a useful overview of important topics in addition to the most basic topics this book includes construction and analysis of demographic matrix models metapopulation and source sink models host parasitoid and disease models multiple basins of attraction the storage effect neutral theory and diversity partitioning several sections include examples of confronting models with data chapter summaries and problem sets at the end of each chapter provide opportunities to evaluate and enrich one's understanding of the ecological ideas that each chapter introduces r is rapidly becoming the lingua franca of quantitative sciences and this text provides a tractable introduction to using the r programming environment in ecology an appendix provides a general introduction and examples of code throughout each chapter give readers the option to hone their growing r skills the distinctive strength of this book is that truths are mostly not revealed but discovered in the way that r savvy ecologists empirical and theoretical work and think now for readers still chained to spreadsheets working through this book could be a revolution in their approach to doing science stephen p ellner cornell university one of the greatest

strengths is the integration of ecological theory with examples pulled straight from the literature james r vonesh virginia commonwealth university

the process of mineral extraction results in substantial damage of the topsoil which leads to soil degradation in the form of deterioration of the soil structure susceptibility to soil erosion excessive leaching of nutrients soil compaction decrease in soil ph accumulation of heavy metals in soil depletion of organic matter reduced accessibility of nutrients for plants diminished capacity for cation exchange the decline in microbial activity and ultimately a consequent decline in soil fertility effective management of topsoil is indispensable in the execution of a reclamation strategy as it serves to minimize nutrient depletion and ultimately expedite the process of restoring soil health and quality ghana is among the top ten gold producing countries in the world and its actions towards achieving environmental sustainability in the mining sector must be shared with the world there are some great success stories as well as challenges in the mining sector sustainability from ghana s case which are left undocumented and are limited in investigations in a scientific book such enviable feats chalked by some mining companies must be documented so that lessons can be borrowed for replications in restoring similar degraded mining sites elsewhere across the globe additionally companies can learn from the success stories and challenges encountered in mine land reclamation and revegetation in this book revegetation may present a sustainable option for the reclamation and restoration of mine soil degradation the restoration process involves many strategies aimed at improving the quality of soil such as augmenting the quantity of soil organic matter enhancing nutrient availability increasing cation exchange capacity stimulating biological activities and optimizing the physical qualities of the soil researchers scientists and consultants in the subject of soil pollution and remediation have conducted a great deal of study using a variety of techniques and approaches however a fragmented reporting of techniques and results has resulted from the documentation and dissemination of success stories challenges and findings mostly through individual technical reports and publication in scholarly journals this book provides an in depth analysis of the many scientific methodologies used to identify environmental risks related to potentially toxic elements ptes in mining sites and revegetation as a strategy to ameliorating contaminated and degraded mining sites the book covers application of these methods in identifying soil human health risks and planning towards reclamation of such derelict ecosystems the book combines reviews of relevant literature laboratory investigation on ptes from representative mine contaminated soil and spoil samples as well as appraisal of case studies on successful reclamation and revegetation of mine degraded lands applications of the total element concentration method size fractionation experiments sequential extraction analyses risk assessment indices geospatial analysis redox chemistry experiments synchrotron radiation science incubation experiments and pot experimental trials in soil remediation works were documented first hand in a single piece in this book the book is organized into nineteen chapters each dedicated to soil contamination caused by mining and revegetation as a sustainable solution the initial parts of the book deal with various techniques for identifying soil human health risks they include some topics such as the consequences of heavy metal presence and build up the sources from which heavy metal pollutants originate and the possible hazards they bring to plant human and soil health the second parts begin with the concept of mining sector sustainability and explore revegetation as a strategy for reclaiming and remediating mining contaminated lands with the objective of restoring ecosystem functionality improving soil characteristics and cleaning metal contaminated soils the book may serve as a valuable resource for individuals occupying various professional roles and engaging in academic pursuits such as project officers operating within the environmental safety and health divisions of mining enterprises consultants specializing in land reclamation lecturers specializing in environmental and soil sciences students and individuals with a strong interest in environmental protection

coverage 1982 current updated monthly this database covers current ecology research across a wide range of disciplines reflecting recent advances in light of growing evidence regarding global environmental change and destruction major ares of subject coverage include algae lichens animals annelids aquatic ecosystems arachnids arid zones birds brackish water bryophytes pteridophytes coastal ecosystems conifers conservation control crustaceans ecosyst em studies fungi grasses grasslands high altitude environments

human ecology insects legumes mammals management microorganisms molluscs nematodes paleo ecology plants pollution studies reptiles river basins soil taiga tundra terrestrial ecosystems vertebrates wetlands woodlands

a reference that offers comprehensive discussions on every important aspect of aluminum bonding for each level of manufacturing from mill finished to deoxidized conversion coated anodized and painted surfaces and provides an extensive up to date review of adhesion science covering all significa

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