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The Popularization of Mathematics Springer

The most trustworthy source of information available today on savings and investments, taxes, money management, home ownership and many other personal finance topics.

Dung Beetle Ecology Redleaf Press

If people are endowed with a "number instinct" similar to the "language instinct" -- as recent research suggests -- then why can't everyone do math? In *The Math Gene*, mathematician and popular writer Keith Devlin attacks both sides of this question. Devlin offers a breathtakingly new theory of language development that describes how language evolved in two stages and how its main purpose was not communication. Devlin goes on to show that the ability to think mathematically arose out of the same symbol-manipulating ability that was so crucial to the very first emergence of true language. Why, then, can't we do math as well as we speak? The answer, says Devlin, is that we can and do -- we just don't recognize when we're using mathematical reasoning.

Chemical Deicers and the Environment Springer Science & Business Media

Chemical Deicers and the Environment provides a complete discussion of chemical deicer technology and history in the United States and Canada. The book describes engineering applications, maintenance procedures, economic evaluations, in addition to environmental problems and concerns relative to the use of chemical deicing. It also provides a technical appraisal of the latest technology to stimulate further research and discussion directed toward achieving a more integrated approach for the application of new deicers that will protect motor vehicles, highways and infrastructures, and the environment. *Chemical Deicers and the Environment* will be a useful reference volume for scientists, legislators, transportation engineers, environmentalists, consultants, and concerned individuals interested in learning about the economic and environmental advantages and disadvantages of today's chemical deicers.

Lisa Murphy on Play CRC Press

Monitoring has become fashionable. Business now talks about monitoring its activities, efficiency, costs and profits. The National Health Service is monitoring general practices and hospitals; it is keen to have more information about efficiency and the duration of stay of patients in different hospitals undergoing different types of treatment. These activities are usually carried out in relation to specific objectives with the aim of making activities more cost effective and competitive. Does the same apply in biology, ecology and nature conservation? Or, are we still enjoying conducting field surveys for the fun of it, at best with rather vague objectives and saying to our colleagues that we do our work because we need to know what is there? This book is an opportunity to consider some of the reasons why monitoring is important, how it differs from survey, how it may be able to answer specific questions and help with site management or problem solving. It will explore some of the taxa that are suitable for recording and how you may actually set about doing it. It is not intended as a catalogue of techniques but we will in each chapter give you sources of material so that with the minimum of effort you will be able to proceed with an efficient, relevant and not too time consuming monitoring programme. Some of the points that you need to consider before starting are also set down in the synthesis at the end of the book.

PISA The PISA 2003 Assessment Framework Mathematics, Reading, Science and Problem Solving Knowledge and Skills Walter de Gruyter

In many ecosystems dung beetles play a crucial role--both ecologically and economically--in the decomposition of large herbivore dung. Their activities provide scientists with an excellent opportunity to explore biological community dynamics. This collection of essays offers a concise account of the population and community ecology of dung beetles worldwide, with an emphasis on comparisons between arctic, temperate, and tropical species assemblages. Useful insights arise from relating the vast differences in species' life histories to their population and community-level consequences. The authors also discuss changes in dung beetle faunas due to human-caused habitat alteration and examine the possible effects of introducing dung beetles to cattle-breeding areas that lack efficient native species. "With the expansion of cattle breeding areas, the ecology of dung beetles is a subject of great economic concern as well as one of intense theoretical interest. This excellent book represents an up-to-date ecological study covering important aspects of the dung beetle never before presented."--Gonzalo Halffter, Instituto de Ecologia, Mexico City Originally published in 1991. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

Entomological Field Techniques for Malaria Control: Learner's guide Springer Science & Business Media Examines the total cost of salt and calcium magnesium acetate (CMA), including the indirect cost of application and indirect costs to the environment, infrastructure, and motor vehicles. This report focuses on defining the true cost of salt, which is the most popular deicer and the standard of comparison for most other deicing products.

Soil Analysis Ashgate Publishing, Ltd.

The fundamental concepts of fractal geometry and chaotic dynamics, along with the related concepts of multifractals, self-similar time series, wavelets, and self-organized criticality, are introduced in this book, for a broad range of readers interested in complex natural phenomena. Now in a greatly expanded, second edition, this book relates fractals and chaos to a variety of geological and geophysical applications. All concepts are introduced at the lowest possible level of mathematics consistent with their understanding, so that the reader requires only a background in basic physics and mathematics.

Highway Deicing John Wiley & Sons

Geomorphologists played a major role in the 1960s and 1970s in terrain research as the potential of the computer was realised for both storing and manipulating landform information. With growth in the subject area, further technological development, and a growing input from other disciplines, much of this research has moved into the domain of GIS and Remote Sensing, where the involvement of geomorphologists has inevitably been reduced, despite the importance of this type of research to geomorphology in general. This book comprises selected and full-refereed

papers from a recent BGRG Annual Conference which was held with these issues in mind. The book contains both review and original and significant research papers that consider recent methodological developments in, and the constraints of, current terrain monitoring and modelling methods in geomorphology, along with the application of these methods to specific geomorphological problems. By providing up-to-date research by leaders in the field of terrain study this book will be of enormous value to undergraduates, research students and research scientists in geomorphology, mapping science and GIS and Remote Sensing, as well as those working in industry who use, or need to apply terrain research methods.

Resource Selection by Animals John Wiley & Sons

Highlights of the book: Discussion about all the fields of Computer Aided Engineering, Finite Element Analysis Sharing of worldwide experience by more than 10 working professionals Emphasis on Practical usage and minimum mathematics Simple language, more than 1000 colour images International quality printing on specially imported paper Why this book has been written ... FEA is gaining popularity day by day & is a sought after dream career for mechanical engineers. Enthusiastic engineers and managers who want to refresh or update the knowledge on FEA are encountered with volume of published books. Often professionals realize that they are not in touch with theoretical concepts as being pre-requisite and find it too mathematical and Hi-Fi. Many a times these books just end up being decoration in their book shelves ... All the authors of this book are from IITs & IISc and after joining the industry realized gap between university education and the practical FEA. Over the years they learned it via interaction with experts from international community, sharing experience with each other and hard route of trial & error method. The basic aim of this book is to share the knowledge & practices used in the industry with experienced and in particular beginners so as to reduce the learning curve & avoid reinvention of the cycle. Emphasis is on simple language, practical usage, minimum mathematics & no pre-requisites. All basic concepts of engineering are included as & where it is required. It is hoped that this book would be helpful to beginners, experienced users, managers, group leaders and as additional reading material for university courses.

Monitoring for Conservation and Ecology Cambridge University Press

The fast exchange of information and knowledge are the essential conditions for successful and effective research and practical applications in cartography. For successful research development, it is necessary to follow trends not only in this domain, but also try to adapt new trends and technologies from other areas. Trends in cartography are also quite often topics of many conferences which have the main aim to link research, education and application experts in cartography and GIS&T into one large platform. Such the right place for exchange and sharing of knowledge and skills was also the CARTOCON2014 conference, which took place in Olomouc, Czech Republic, in February 2014 and this book is a compilation of the best and most interesting contributions. The book content consists of four parts. The first part New approaches in map and atlas making collects studies about innovative ways in map production and atlases compilation. Following part of the book Progress in web cartography brings examples and tools for web map presentation. The third part Advanced methods in map use includes achievement of eye-tracking research and users' issues. The final part Cartography in practice and research is a clear evidence that cartography and maps played the significant role in many geosciences and in many branches of the society. Each individual paper is original and has its place in cartography.

International Conference, Design and Operation of Bulk Carriers: Post M.v. Derbyshire John Wiley & Sons

We have written this book as a guide to the design and analysis of field studies of resource selection, concentrating primarily on statistical aspects of the comparison of the use and availability of resources of different types. Our intended audience is field ecologists in general and, in particular, wildlife and fisheries biologists who are attempting to measure the extent to which real animal populations are selective in their choice of food and habitat. As such, we have made no attempt to address those aspects of theoretical ecology that are concerned with how animals might choose their resources if they acted in an optimal manner. The book is based on the concept of a resource selection function (RSF), where this is a function of characteristics measured on resource units such that its value for a unit is proportional to the probability of that unit being used. We argue that this concept leads to a unified theory for the analysis and interpretation of data on resource selection and can replace many ad hoc statistical methods that have been used in the past.

Kiplinger's Personal Finance Magazine Elsevier

Historically, tropical ecology has been a science often content with descriptive and demographic approaches, which is understandable given the difficulty of studying these ecosystems and the need for basic demographic information. Nonetheless, over the last several years, tropical ecologists have begun to test more sophisticated ecological theory and are now beginning to address a broad array of questions that are of particular importance to tropical systems, and ecology in general. Why are there are so many species in tropical forests and what mechanisms are responsible for the maintenance of that vast species diversity? What factors control species coexistence? Are there common patterns of species abundance and distribution across broad geographic scales? What is the role of trophic interactions in these complex ecosystems? How can these fragile ecosystems be conserved? Containing contributions from some of the world's leading tropical ecologists, *Tropical Forest Community Ecology* provides a summary of the key issues in the discipline of tropical ecology: Includes contributions from some of the world's leading tropical ecologists Covers patterns of species distribution, the maintenance of species diversity, the community ecology of tropical animals, forest regeneration and conservation of tropical ecosystems

Landform Monitoring, Modelling and Analysis Transportation Research Board

Using Lady Morgan's *The Wild Irish Girl* as his point of departure, Thomas J. Tracy argues that nineteenth-century debates over what constitutes British national identity often revolved around representations of Irishness, especially Irish womanhood. He maps the genealogy of this development in fiction, political discourse, and the popular press, from Edgeworth's *Castle Rackrent* through Trollope's Irish novels, focusing on the pivotal period from 1806 through the 1870s.

Field Tunnel Erosion, Its Characteristics and Amelioration FINITE TO INFINITE

The Times (Obituaries, 4 August 2008) reported that "John Thorne was one of the most eminent and influential physical geographers of his generation." John's keen interest in understanding landform

processes and evolution was furthered through a variety of methods and informed across a range of disciplinary boundaries. In particular he pushed for better integration of monitoring, theoretical and simulation modelling, field and laboratory experimentation and remote sensing techniques. Although dominated by an interest in the Mediterranean region and problems of land degradation, his research activities ranged across a number of time scales and with other environmental perspectives. This collection of papers reflects this wide range of John's interests through the recent work of scientists and professionals most strongly influenced by his rigorous training or leadership. The thematic focus of the book, which runs through all of the main contributions, is the integration of different methodologies and the application of this approach to improved understanding of natural systems and the development of appropriate strategies for environmental and resource management. Short overviews of John's contributions to geomorphological research are also presented to provide context for the origins of this book.

10 Years on 2 Wheels Cambridge University Press

The papers arising from the ICMI study seminar on the popularization of mathematics held at the University of Leeds, UK, 17-22 September 1989.

Alien Terrestrial Arthropods of Europe CRC Press

Transcript of papers presented in a national workshop held at Ooty, Tamil Nadu; organized by the National Biodiversity Authority.

Coleoptera, Lamellicornia: Rutelinæ, Desmonycinæ, and Euchirinæ John Wiley & Sons

Discover why playing is school readiness with this updated guide. Timely research and new stories highlight how play is vital to the social, physical, cognitive, and spiritual development of children. Learn the seven meaningful experiences we should provide children with every day and why they are so important.

Forest Biodiversity Basic Books

A systematic, in-depth introduction to theories and principles of Light Detection and Ranging (LiDAR) technology is long overdue, as it is the most important geospatial data acquisition technology to be introduced in recent years. An advanced discussion, this text fills the void. Professionals in fields ranging from geology, geography and geoinformatics to physics, transportation, and law enforcement will benefit from this comprehensive discussion of topographic LiDAR principles, systems, data acquisition, and data processing techniques. The book covers ranging and scanning fundamentals, and broad, contemporary analysis of airborne LiDAR systems, as well as those situated on land and in space. The authors present data collection at the signal level in terms of waveforms and their properties; at the system level with regard to calibration and georeferencing; and at the data level to discuss error budget, quality control, and data organization. They devote the bulk of the book to LiDAR data processing and information extraction and elaborate on recent developments in building extraction and reconstruction, highlighting quality and performance evaluations. There is also extensive discussion of the state-of-the-art technological developments used in: filtering algorithms for digital terrain model generation; strip adjustment of data for registration; co-registration of LiDAR data with imagery; forestry inventory; and surveying. Readers get insight into why LiDAR is the effective tool of choice to collect massive volumes of explicit 3-D data with unprecedented accuracy and simplicity. Compiled by leading experts talking about much of their own pioneering work, this book will give researchers, professionals, and senior students novel ideas to supplement their own experience and practices.

GIS Cartography OECD Publishing

Written for people who have some general background in soils but may not have received training in soil physics. Discusses the underlying theory, limitations, reliability, and application of current soil physical measurement methods. Reviews methods in practice, considering accuracy, measurement time

Topographic Laser Ranging and Scanning CRC Press

In the five years since the publication of the first edition of *A Guide to Effective Map Design*, cartography and software have become further intertwined. However, the initial motivation for publishing the first edition is still valid: many GISers enter the field without so much as one hour of design instruction in their formal education. Yet they are then tasked with creating one of the most effective, easily recognized communication tools: a map. See What's New in the Second Edition Projection theory Hexagonal binning Big Data point density maps Scale dependent map design 3D building modeling Digital cartography and its best practices Updated graphics and references Study questions and lab exercises at the end of each chapter In this second edition of a bestseller, author Gretchen Peterson takes a "don't let the technology get in the way" approach to the presentation, focusing on the elements of good design, what makes a good map, and how to get there, rather than specific software tools. She provides a reference that you can thumb through time and again as you create your maps. Copiously illustrated, the second edition explores novel concepts that kick-start your pursuit of map-making excellence. The book doesn't just teach you how to design and create maps, it teaches you how to design and create better maps.