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Ecology IARC

In the history of electronic communication, the last quarter of the nineteenth century holds a special place, for it was during this period that the telephone, phonograph, electric light, wireless, and cinema were all invented. In *When old Technologies Were New*, Carolyn Marvin explores how two of these new inventions--the telephone and the electric light--were publicly envisioned at the end of the nineteenth century, as seen in specialized engineering journals and popular media. Marvin pays particular attention to the telephone, describing how it disrupted established social relations, unsettling customary ways of dividing the private person and family from the more public setting of the community. On the lighter side, she describes how people spoke louder when calling long distance, and how they worried about catching contagious diseases over the phone. A particularly powerful chapter deals with telephonic precursors of radio broadcasting--the "Telephone Herald" in New York and the "Telefon Hirmondo" of Hungary--and the conflict between the technological development of broadcasting and the attempt to impose a homogenous, ethnocentric variant of Anglo-Saxon culture on the public. While focusing on the way professionals in the electronics field tried to control the new media, Marvin also illuminates the broader social impact, presenting a wide-ranging, informative, and entertaining account of the early years of electronic media.

Dugard's International Law Springer Science & Business Media

A basic textbook addressed to medical and public health students, clinicians, health professionals, and all others seeking to understand the principles and methods used in cancer epidemiology.

Written by a prominent epidemiologist and experienced teacher at the London School of Hygiene and Tropical Medicine, the text aims to help readers become competent in the use of basic epidemiological tools and capable of exercising critical judgment when assessing results reported by others. Throughout the text, a lively writing style and numerous illustrative examples, often using real

research data, facilitate an easy understanding of basic concepts and methods. Information ranges from an entertaining account of the origins of epidemiology, through advice on how to overcome some of the limitations of survival analysis, to a checklist of questions to ask when considering sources of bias. Although statistical concepts and formulae are presented, the emphasis is consistently on the interpretation of the data rather than on the actual calculations. The text has 18 chapters. The first six introduce the basic principles of epidemiology and statistics. Chapters 7-13 deal in more depth with each of the study designs and interpretation of their findings. Two chapters, concerned with the problems of confounding and study size, cover more complex statistical concepts and are included for advanced study. A chapter on methodological issues in cancer prevention gives examples of epidemiology's contribution to primary prevention, screening and other activities for early detection, and tertiary prevention. The concluding chapters review the role of cancer registries and discuss practical considerations that should be taken into account in the design, planning, and conduct of any type of epidemiological research.

A Mathematical Introduction to Robotic Manipulation Academic Press
This is a graduate text introducing the fundamentals of measure theory and integration theory, which is the foundation of modern real analysis. The text focuses first on the concrete setting of Lebesgue measure and the Lebesgue integral (which in turn is motivated by the more classical concepts of Jordan measure and the Riemann integral), before moving on to abstract measure and integration theory, including the standard convergence theorems, Fubini's theorem, and the Carathéodory extension theorem. Classical differentiation theorems, such as the Lebesgue and Rademacher differentiation theorems, are also covered, as are connections with probability theory. The material is intended to cover a quarter or semester's worth of material for a first graduate course in real analysis. There is an emphasis in the text on tying together the abstract and the concrete sides of the subject, using the latter to illustrate and motivate the former. The central role of key principles (such as Littlewood's three principles) as providing guiding intuition to the subject is also emphasized. There are a large number of exercises throughout that develop key aspects of the theory, and are thus an integral component of the text. As a supplementary section, a discussion of general problem-solving strategies in analysis is also given. The last three sections discuss optional topics related to the main matter of the book.

Matrix Analysis of Structures SI Version World Bank Publications

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Analysis of Variance, Design, and Regression Benjamin-Cummings Publishing Company

This very well written and accessible book emphasizes the reasons for studying measure theory, which is the foundation of much of probability. By focusing on measure, many illustrative examples and applications, including a thorough discussion of standard probability distributions and densities, are opened. The book also includes many problems and their fully worked solutions.

Handbook of Industrial Engineering Equations, Formulas, and Calculations Elsevier
'Bretherick' is widely accepted as the reference work on reactive chemical hazards and is essential for all those working with chemicals. It attempts to include every chemical for which documented information on reactive hazards has been found. The text covers over 5000 elements and compounds and as many again of secondary entries involving two or more compounds. One of its most valuable features is the extensive cross referencing throughout both sections which links similar compounds or incidents not obviously related. The fifth edition has been completely updated and revised by the new Editor and contains documented information on hazards and appropriate references up to 1994, although the text still follows the format of previous editions. Volume 1 is devoted to specific information on the stability of the listed compounds, or the reactivity of mixtures of two or more of them under various circumstances. Each compound is identified by an UPAC-based name, the CAS registry number, its empirical formula and structure. Each description of an incident or violent reaction gives reference to the original literature. Each chemical is classified on the basis of similarities in structure or reactivity, and these groups are listed alphabetically in Volume 2. The group entries contain a complete listing of all the compounds in Volume 1 assigned to that group to assist cross referral to similar compounds. Volume 2 also contains hazard topic entries arranged alphabetically, some with lists. Appendices include a fire related data table for higher risk chemicals, indexes of registry numbers and chemical names as well as reference abbreviations and a glossary.

Numerical Algorithms Elsevier

A Mathematical Introduction to Robotic Manipulation presents a mathematical formulation of the kinematics, dynamics, and control of robot manipulators. It uses an elegant set of mathematical tools that emphasizes the geometry of robot motion and allows a large class of robotic manipulation problems to be analyzed within a unified framework. The foundation of the book is a derivation of robot kinematics using the product of the exponentials formula. The authors explore the kinematics of open-chain manipulators and multifingered robot hands, present an analysis of the dynamics and control of robot systems, discuss the specification and control of internal forces and internal motions, and address the implications of the nonholonomic nature of rolling contact are addressed, as well. The wealth of information, numerous examples, and exercises make A Mathematical Introduction to Robotic Manipulation valuable as both a reference for robotics researchers and a text for students in advanced robotics courses.

Cancer Epidemiology American Mathematical Soc.

This book takes a fresh, student-oriented approach to teaching the material covered in the senior- and first-year graduate-level matrix structural analysis course. Unlike traditional texts for this course that are difficult to read, Kassimali takes special care to provide understandable and exceptionally clear explanations of concepts, step-by-step procedures for analysis, flowcharts, and interesting and modern examples, producing a technically and mathematically accurate presentation of the subject. Important

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Direct and Large Eddy Simulation XII Seaforth Publishing

Perfect for radiation oncology physicians and residents needing a multidisciplinary, treatment-focused resource, this updated edition continues to provide the latest knowledge in this consistently growing field. Not only will you broaden your understanding of the basic biology of disease processes, you'll also access updated treatment algorithms, information on techniques, and state-of-the-art modalities. The consistent and concise format provides just the right amount of information, making Clinical Radiation Oncology a welcome resource for use by the entire radiation oncology team. Content is templated and divided into three sections -- Scientific Foundations of Radiation Oncology, Techniques and Modalities, and Disease Sites - for quick access to information. Disease Sites chapters summarize the most important issues on the opening page and include a full-color format, liberal use of tables and figures, a closing section with a discussion of controversies and problems, and a treatment algorithm that reflects the treatment approach of the authors. Chapters have been edited for scientific accuracy, organization, format, and adequacy of outcome data (such as disease control, survival, and treatment tolerance). Allows you to examine the therapeutic management of specific disease sites based on single-modality and combined-modality approaches. Features an emphasis on providing workup and treatment algorithms for each major disease process, as well as the coverage of molecular biology and its relevance to individual diseases. Two new chapters provide an increased emphasis on stereotactic radiosurgery (SRS) and stereotactic body irradiation (SBRT). New Associate Editor, Dr. Andrea Ng, offers her unique perspectives to the Lymphoma and Hematologic Malignancies section. Key Points are summarized at the beginning of each disease-site chapter, mirroring the template headings and highlighting essential information and outcomes. Treatment algorithms and techniques, together with discussions of controversies and problems, reflect the treatment approaches employed by the authors. Disease Site Overviews allow each section editor to give a unique perspective on important issues, while online updates to Disease Site chapters ensure your knowledge is current. Disease Site chapters feature updated information on disease management and outcomes. Four videos accessible on Expert Consult include Intraoperative Irradiation, Prostate Brachytherapy, Penile Brachytherapy, and Ocular Melanoma. Thirty all-new anatomy drawings increase your visual understanding. Expert Consult eBook version included with purchase. This enhanced eBook experience allows you to search all of the text, figures, and references from the book on a variety of devices.

Brief Counselling in Schools Oxford University Press, USA

This book gathers the proceedings of the 12th instalment in the bi-annual Workshop series on Direct and Large Eddy Simulation (DLES), which began in 1994 and focuses on modern techniques used to simulate turbulent flows based on the partial or full resolution of the instantaneous turbulent flow structure. With the rapidly expanding capacities of modern computers, this approach has attracted more and more interest over the years and will undoubtedly be further enhanced and applied in the future. Hybrid modelling techniques based on a combination of LES and RANS approaches also fall into this category and are covered as well. The goal of the Workshop was to share the state of the art in DNS, LES and related techniques for the computation and modelling of turbulent and transitional flows. The respective papers highlight the latest advances in the prediction, understanding and control of turbulent flows in academic and industrial applications.

Microwave Engineering CRC Press

'The Road to Results: Designing and Conducting Effective Development Evaluations' presents concepts and procedures for evaluation in a development context. It provides procedures and examples on how to set up a monitoring and evaluation system, how to conduct participatory evaluations and do social mapping, and how to construct a "rigorous" quasi-experimental design to answer an impact question. The text begins with the context of development evaluation and how it arrived where it is today. It then discusses current issues driving development evaluation, such as the Millennium Development Goals and the move from simple project evaluations to the broader understandings of complex evaluations. The topics of implementing 'Results-based Measurement and Evaluation' and constructing a 'Theory of Change' are emphasized throughout the text. Next, the authors take the reader down 'the road to results,' presenting procedures for evaluating projects, programs, and policies by using a 'Design Matrix' to help map the process. This road includes: determining the overall approach, formulating questions, selecting designs, developing data collection instruments, choosing a sampling strategy, and planning data analysis for qualitative, quantitative, and mixed method evaluations. The book also includes discussions on conducting complex evaluations, how to manage evaluations, how to present results, and ethical behavior--including principles, standards, and guidelines. The final chapter discusses the future of development evaluation. This comprehensive text is an essential tool for those involved in development evaluation.

Clinical Radiation Oncology University of Chicago Press

This best-selling majors ecology book continues to present ecology as a series of problems for readers to critically analyze. No other text presents analytical, quantitative, and statistical ecological information in an equally accessible style. Reflecting the way ecologists actually practice, the book emphasizes the role of experiments in testing ecological ideas and discusses many contemporary and controversial problems related to distribution and abundance. Throughout the book, Krebs thoroughly explains the application of mathematical concepts in ecology while reinforcing these concepts with research references, examples, and interesting end-of-chapter review questions. Thoroughly updated with new examples and references, the book now features a new full-color design and is accompanied by an art CD-ROM for instructors. The field package also includes The Ecology Action Guide, a guide that encourages readers to be environmentally responsible citizens, and a subscription to The Ecology Place (www.ecologyplace.com), a web site and CD-ROM that enables users to become virtual field ecologists by performing experiments such as estimating the number of mice on an imaginary island or restoring prairie land in Iowa. For college instructors and students.

Introductory Functional Analysis with Applications American Mathematical Soc.

The first handbook to focus exclusively on industrial engineering calculations with a correlation to applications, Handbook of Industrial Engineering Equations, Formulas, and Calculations contains a general collection of the mathematical equations often used in the practice of industrial engineering. Many books cover individual areas of engineering

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We live in a highly connected world with multiple self-interested agents interacting and myriad opportunities for conflict and cooperation. The goal of game theory is to understand these opportunities. This book presents a rigorous introduction to the mathematics of game theory without losing sight of the joy of the subject. This is done by focusing on theoretical highlights (e.g., at least six Nobel Prize winning results are developed from scratch) and by presenting exciting connections of game theory to other fields such as computer science (algorithmic game theory), economics (auctions and matching markets), social choice (voting theory), biology (signaling and evolutionary stability), and learning theory. Both classical topics, such as zero-sum games, and modern topics, such as sponsored search auctions, are covered. Along the way, beautiful mathematical tools used in game theory are introduced, including convexity, fixed-point theorems, and probabilistic arguments. The book is appropriate for a first course in game theory at either the undergraduate or graduate level, whether in mathematics, economics, computer science, or statistics. The importance of game-theoretic thinking transcends the academic setting—for every action we take, we must consider not only its direct effects, but also how it influences the incentives of others.

Resources in Women's Educational Equity Elsevier Health Sciences

Numerical Algorithms: Methods for Computer Vision, Machine Learning, and Graphics presents a new approach to numerical analysis for modern computer scientists. Using examples from a broad base of computational tasks, including data processing, computational photography, and animation, the textbook introduces numerical modeling and algorithmic design

Latin Squares and Their Applications Pearson Education India
Aeronautical Engineer's Data Book is an essential handy guide containing useful up to date information regularly needed by the student or practising engineer. Covering all aspects of aircraft, both fixed wing and rotary craft, this pocket book provides quick access to useful aeronautical engineering data and sources of information for further in-depth information. - Quick reference to essential data - Most up to date information available

Introduction To Design And Analysis Of Algorithms, 2/E CRC Press

The 4th edition of this classic text provides a thorough coverage of RF and microwave engineering concepts, starting from fundamental principles of electrical engineering, with applications to microwave circuits and devices of practical importance. Coverage includes microwave network analysis, impedance matching, directional couplers and hybrids, microwave filters, ferrite devices, noise, nonlinear effects, and the design of microwave oscillators, amplifiers, and mixers. Material on microwave and RF systems includes wireless communications, radar, radiometry, and radiation hazards. A large number of examples and end-of-chapter problems test the reader's understanding of the material. The 4th edition includes new and updated material on systems, noise, active devices and circuits, power waves, transients, RF CMOS circuits, and more.

Measure, Integral and Probability TVET First Nated Series

This entirely revised second edition of Engineering a Compiler is full of technical updates and new material covering the latest developments in compiler technology. In this comprehensive text you will learn important techniques for constructing a modern compiler. Leading educators and researchers Keith Cooper and Linda Torczon combine basic principles with pragmatic insights from their experience building state-of-the-art compilers. They will help you fully understand important techniques such as compilation of imperative and object-oriented languages, construction of static single assignment

forms, instruction scheduling, and graph-coloring register allocation. - In-depth treatment of algorithms and techniques used in the front end of a modern compiler - Focus on code optimization and code generation, the primary areas of recent research and development - Improvements in presentation including conceptual overviews for each chapter, summaries and review questions for sections, and prominent placement of definitions for new terms - Examples drawn from several different programming languages

Current Index to Journals in Education Cengage Learning

This text presents a comprehensive treatment of basic statistical methods and their applications. It focuses on the analysis of variance and regression, but also addressing basic ideas in experimental design and count data. The book has four connecting themes: similarity of inferential procedures, balanced one-way analysis of variance, comparison of models, and checking assumptions. Most inferential procedures are based on identifying a scalar parameter of interest, estimating that parameter, obtaining the standard error of the estimate, and identifying the appropriate reference distribution. Given these items, the inferential procedures are identical for various parameters. Balanced one-way analysis of variance has a simple, intuitive interpretation in terms of comparing the sample variance of the group means with the mean of the sample variance for each group. All balanced analysis of variance problems are considered in terms of computing sample variances for various group means. Comparing different models provides a structure for examining both balanced and unbalanced analysis of variance problems and regression problems. Checking assumptions is presented as a crucial part of every statistical analysis. Examples using real data from a wide variety of fields are used to motivate theory. Christensen consistently examines residual plots and presents alternative analyses using different transformation and case deletions. Detailed examination of interactions, three factor analysis of variance, and a split-plot design with four factors are included. The numerous exercises emphasize analysis of real data. Senior undergraduate and graduate students in statistics and graduate students in other disciplines using analysis of variance, design of experiments, or regression analysis will find this book useful.

Medical and Veterinary Entomology CRC Press

Now in its second edition, this book focuses on practical algorithms for mining data from even the largest datasets.