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Engineering Science N1 - 2000

Standards-Based and Responsive Evaluation

- Robert E. Stake 2003-10-30

The book begins with the main strategic choices an evaluator needs to make between approaches: quantitatively, by explicating criteria, needs, standards, and performances, or qualitatively, by studying the activity, aspirations, problems, and accomplishments of the participants and critical observers. After reading the text, students will have a better appreciation of evaluation as a process that needs to be custom-fit to the situation.

Throughout the book, Stake presents evaluation as a series of choices for the reader: - To remain independent or to join with program staff or stakeholders - To value personal experience as evidence or to shun it as biased - To aid development formatively or to assess the existing program summatively - To use issues, goals, gains, efficiency, or problem solving as the key conceptual structure - To invest small or large in trying out and validating data-gathering procedures - To support the standards and ethical codes of professional associations

The Handbook of Work Based Learning - Ian Cunningham 2016-03-03

Organizational leaders, governments and trade unions all agree that learning is fundamental to organizational and economic success. The

question is how it should best be supported. The Handbook of Work Based Learning delivers a compelling answer to this question. Learning needs to be based in the realities of organizational life. This unique, groundbreaking handbook provides a definitive guide to the set of strategies, tactics and methods for supporting work based learning. The three main parts of the Handbook, which focus in turn on strategies, tactics and methods, are written for both the learner and the professional developer alike. Each includes a description of the process (strategy, tactic or method), provides examples of what it looks like in action, explains the benefits and the likely limitations and provides a set of operating hints for applying the process. Nothing has been neglected, so alongside detailed descriptions of what to do and how to do it, the authors have included the Declaration on Learning, created by thirteen of the major figures in the field of organizational learning, a section guiding you towards routes for gaining qualifications, along with a well-researched set of references and further reading.

On the Stability of Type I Blow Up for the Energy Super Critical Heat Equation - Charles Collot 2019-09-05

The authors consider the energy super critical semilinear heat equation The authors first revisit the construction of radially symmetric self similar solutions performed through an ode

approach and propose a bifurcation type argument which allows for a sharp control of the spectrum of the corresponding linearized operator in suitable weighted spaces. They then show how the sole knowledge of this spectral gap in weighted spaces implies the finite codimensional nonradial stability of these solutions for smooth well localized initial data using energy bounds. The whole scheme draws a route map for the derivation of the existence and stability of self-similar blow up in nonradial energy super critical settings.

The Business Plan - Gerald Schwetje 2007-08-24

This book provides the essentials to write a successful business plan. The represented methods and best practices have been approved over many years in practice with many management consulting engagements. The book is beautifully structured, it has a pragmatic emphasis and an autodidactic approach. The reader gets acquainted with the skills and competencies as well as tools, required for the planning and development of the business plan project.

Government Reports Announcements - 1973

EPA Publications Bibliography - 1992

Academic Literacy Development - Laura-Mihaela Muresan 2021-03-11

This edited book brings together an international cast of contributors to examine how academic literacy is learned and mastered in different tertiary education settings around the world. Bringing to the fore the value of qualitative enquiry through ethnographic methods, the authors illustrate in-depth descriptions of genre knowledge and academic literacy development in first and second language writing. All of the data presented in the chapters are original, as well as innovative in the field in terms of content and scope, and thought-provoking regarding theoretical, methodological and educational approaches. The contributions are also representative of both novice and advanced academic writing experiences, providing further insights into different stages of academic literacy development throughout the career-span of a researcher. Set against the backdrop of internationalisation trends in Higher Education

and the pressure on multilingual academics to publish their research outcomes in English, this volume will be of use to academics and practitioners interested in the fields of Languages for Academic Purposes, Applied Linguistics, Literacy Skills, Genre Analysis and Acquisition and Language Education.

Procedures for Testing Color Vision - Committee on Vision 1981-01-15

Probability, Statistics, and Stochastic

Processes - Peter Olofsson 2012-05-22

Praise for the First Edition ". . . an excellent textbook . . . well organized and neatly written."

—Mathematical Reviews ". . . amazingly

interesting . . ." —Technometrics Thoroughly

updated to showcase the interrelationships

between probability, statistics, and stochastic

processes, Probability, Statistics, and Stochastic

Processes, Second Edition prepares readers to

collect, analyze, and characterize data in their

chosen fields. Beginning with three chapters

that develop probability theory and introduce

the axioms of probability, random variables, and

joint distributions, the book goes on to present

limit theorems and simulation. The authors

combine a rigorous, calculus-based development

of theory with an intuitive approach that appeals

to readers' sense of reason and logic. Including

more than 400 examples that help illustrate

concepts and theory, the Second Edition

features new material on statistical inference

and a wealth of newly added topics, including:

Consistency of point estimators Large sample

theory Bootstrap simulation Multiple hypothesis

testing Fisher's exact test and Kolmogorov-

Smirnov test Martingales, renewal processes,

and Brownian motion One-way analysis of

variance and the general linear model

Extensively class-tested to ensure an accessible

presentation, Probability, Statistics, and

Stochastic Processes, Second Edition is an

excellent book for courses on probability and

statistics at the upper-undergraduate level. The

book is also an ideal resource for scientists and

engineers in the fields of statistics, mathematics,

industrial management, and engineering.

U.S. Government Research & Development

Reports - 1970

My Children! My Africa! (TCG Edition) - Athol

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Fugard 1993-01-01

The search for a means to an end to apartheid erupts into conflict between a black township youth and his "old-fashioned" black teacher.

The Triangle-Free Process and the Ramsey Number $R(3,k)$ - Gonzalo Fiz Pontiveros

2020-04-03

The areas of Ramsey theory and random graphs have been closely linked ever since Erdős's famous proof in 1947 that the "diagonal" Ramsey numbers $R(k)$ grow exponentially in k . In the early 1990s, the triangle-free process was introduced as a model which might potentially provide good lower bounds for the "off-diagonal" Ramsey numbers $R(3,k)$. In this model, edges of K_n are introduced one-by-one at random and added to the graph if they do not create a triangle; the resulting final (random) graph is denoted $G_{n,\Delta}$. In 2009, Bohman succeeded in following this process for a positive fraction of its duration, and thus obtained a second proof of Kim's celebrated result that $R(3,k) = \Theta(k^2/\log k)$. In this paper the authors improve the results of both Bohman and Kim and follow the triangle-free process all the way to its asymptotic end.

Linear Models in Statistics - Alvin C. Rencher
2008-01-18

The essential introduction to the theory and application of linear models—now in a valuable new edition Since most advanced statistical tools are generalizations of the linear model, it is necessary to first master the linear model in order to move forward to more advanced concepts. The linear model remains the main tool of the applied statistician and is central to the training of any statistician regardless of whether the focus is applied or theoretical. This completely revised and updated new edition successfully develops the basic theory of linear models for regression, analysis of variance, analysis of covariance, and linear mixed models. Recent advances in the methodology related to linear mixed models, generalized linear models, and the Bayesian linear model are also addressed. *Linear Models in Statistics, Second Edition* includes full coverage of advanced topics, such as mixed and generalized linear models, Bayesian linear models, two-way models with empty cells, geometry of least squares, vector-matrix calculus, simultaneous inference, and logistic and nonlinear regression. Algebraic,

geometrical, frequentist, and Bayesian approaches to both the inference of linear models and the analysis of variance are also illustrated. Through the expansion of relevant material and the inclusion of the latest technological developments in the field, this book provides readers with the theoretical foundation to correctly interpret computer software output as well as effectively use, customize, and understand linear models. This modern Second Edition features: New chapters on Bayesian linear models as well as random and mixed linear models Expanded discussion of two-way models with empty cells Additional sections on the geometry of least squares Updated coverage of simultaneous inference The book is complemented with easy-to-read proofs, real data sets, and an extensive bibliography. A thorough review of the requisite matrix algebra has been added for transitional purposes, and numerous theoretical and applied problems have been incorporated with selected answers provided at the end of the book. A related Web site includes additional data sets and SAS® code for all numerical examples. *Linear Model in Statistics, Second Edition* is a must-have book for courses in statistics, biostatistics, and mathematics at the upper-undergraduate and graduate levels. It is also an invaluable reference for researchers who need to gain a better understanding of regression and analysis of variance.

Government Reports Announcements & Index -
1992-12

Vehicle Dynamics - Reza N. Jazar 2013-11-19

This textbook is appropriate for senior undergraduate and first year graduate students in mechanical and automotive engineering. The contents in this book are presented at a theoretical-practical level. It explains vehicle dynamics concepts in detail, concentrating on their practical use. Related theorems and formal proofs are provided, as are real-life applications. Students, researchers and practicing engineers alike will appreciate the user-friendly presentation of a wealth of topics, most notably steering, handling, ride, and related components. This book also: Illustrates all key concepts with examples Includes exercises for each chapter Covers front, rear, and four wheel

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steering systems, as well as the advantages and disadvantages of different steering schemes Includes an emphasis on design throughout the text, which provides a practical, hands-on approach

Manual of Engineering Drawing - Colin H. Simmons 2003-10-21

The Manual of Engineering Drawing has long been recognised as the student and practising engineer's guide to producing engineering drawings that comply with ISO and British Standards. The information in this book is equally applicable to any CAD application or manual drawing. The second edition is fully in line with the requirements of the new British Standard BS8888: 2002, and will help engineers, lecturers and students with the transition to the new standards. BS8888 is fully based on the relevant ISO standards, so this book is also ideal for an international readership. The comprehensive scope of this book encompasses topics including orthographic, isometric and oblique projections, electric and hydraulic diagrams, welding and adhesive symbols, and guidance on tolerancing. Written by a member of the ISO committee and a former college lecturer, the Manual of Engineering Drawing combines up-to-the-minute technical accuracy with clear, readable explanations and numerous diagrams. This approach makes this an ideal student text for vocational courses in engineering drawing and undergraduates studying engineering design / product design. Colin Simmons is a member of the BSI and ISO Draughting Committees and an Engineering Standards Consultant. He was formerly Standards Engineer at Lucas CAV. * Fully in line with the latest ISO Standards * A textbook and reference guide for students and engineers involved in design engineering and product design * Written by a former lecturer and a current member of the relevant standards committees

Illuminating Social Life - Peter Kivisto 2011

Illuminating Social Life has enjoyed increasing popularity with each edition. It is the only book designed for undergraduate teaching that shows today's students how classical and contemporary social theories can be used to shed new light on such topics as the internet, the world of work, fast food restaurants, shopping malls, alcohol

use, body building, sales and service, and new religious movements. A perfect complement for the sociological theory course, it offers 13 original essays by leading scholars in the field who are also experienced undergraduate theory teachers. Substantial introductions by the editor link the applied essays to a complete review of the classical and modern social theories used in the book.

Data Science and Analytics - Usha Batra 2020-05-27

This two-volume set (CCIS 1229 and CCIS 1230) constitutes the refereed proceedings of the 5th International Conference on Recent Developments in Science, Engineering and Technology, REDSET 2019, held in Gurugram, India, in November 2019. The 74 revised full papers presented were carefully reviewed and selected from total 353 submissions. The papers are organized in topical sections on data centric programming; next generation computing; social and web analytics; security in data science analytics; big data analytics.

Current Topics in Education - 1973

Education and Industry, a Joint Endeavor - American Society for Engineering Education. Conference 1981

Mathematics N1 - D. Duffield 2001

Engineering Mathematics with Examples and Applications - Xin-She Yang 2016-12-29
Engineering Mathematics with Examples and Applications provides a compact and concise primer in the field, starting with the foundations, and then gradually developing to the advanced level of mathematics that is necessary for all engineering disciplines. Therefore, this book's aim is to help undergraduates rapidly develop the fundamental knowledge of engineering mathematics. The book can also be used by graduates to review and refresh their mathematical skills. Step-by-step worked examples will help the students gain more insights and build sufficient confidence in engineering mathematics and problem-solving. The main approach and style of this book is informal, theorem-free, and practical. By using an informal and theorem-free approach, all fundamental mathematics topics required for

engineering are covered, and readers can gain such basic knowledge of all important topics without worrying about rigorous (often boring) proofs. Certain rigorous proof and derivatives are presented in an informal way by direct, straightforward mathematical operations and calculations, giving students the same level of fundamental knowledge without any tedious steps. In addition, this practical approach provides over 100 worked examples so that students can see how each step of mathematical problems can be derived without any gap or jump in steps. Thus, readers can build their understanding and mathematical confidence gradually and in a step-by-step manner. Covers fundamental engineering topics that are presented at the right level, without worry of rigorous proofs Includes step-by-step worked examples (of which 100+ feature in the work) Provides an emphasis on numerical methods, such as root-finding algorithms, numerical integration, and numerical methods of differential equations Balances theory and practice to aid in practical problem-solving in various contexts and applications

Current Index to Journals in Education - 1989

Software Abstractions, revised edition - Daniel Jackson 2016-02-12

An approach to software design that introduces a fully automated analysis giving designers immediate feedback, now featuring the latest version of the Alloy language. In *Software Abstractions* Daniel Jackson introduces an approach to software design that draws on traditional formal methods but exploits automated tools to find flaws as early as possible. This approach—which Jackson calls “lightweight formal methods” or “agile modeling”—takes from formal specification the idea of a precise and expressive notation based on a tiny core of simple and robust concepts but replaces conventional analysis based on theorem proving with a fully automated analysis that gives designers immediate feedback. Jackson has developed Alloy, a language that captures the essence of software abstractions simply and succinctly, using a minimal toolkit of mathematical notions. This revised edition updates the text, examples, and appendixes to

be fully compatible with Alloy 4.
The Environment Index - 1972

Quantity Surveying N4 Student's Book - Sparrow Consulting (Firm) 2021-02-21

Networking Seifert Surgeries on Knots - Arnaud Deruelle 2012

The authors propose a new approach in studying Dehn surgeries on knots in the S^3 -sphere yielding Seifert fiber spaces. The basic idea is finding relationships among such surgeries. To describe relationships and get a global picture of Seifert surgeries, they introduce “seiferters” and the Seifert Surgery Network, a 1-dimensional complex whose vertices correspond to Seifert surgeries. A seiferter for a Seifert surgery on a knot K is a trivial knot in S^3 disjoint from K that becomes a fiber in the resulting Seifert fiber space. Twisting K along its seiferter or an annulus cobounded by a pair of its seiferters yields another knot admitting a Seifert surgery. Edges of the network correspond to such twistings. A path in the network from one Seifert surgery to another explains how the former Seifert surgery is obtained from the latter after a sequence of twistings along seiferters and/or annuli cobounded by pairs of seiferters. The authors find explicit paths from various known Seifert surgeries to those on torus knots, the most basic Seifert surgeries. The authors classify seiferters and obtain some fundamental results on the structure of the Seifert Surgery Network. From the networking viewpoint, they find an infinite family of Seifert surgeries on hyperbolic knots which cannot be embedded in a genus two Heegaard surface of S^3 .

Dugard's International Law - John Dugard 2019-01-07

This fifth edition of *International Law: A South African Perspective* is now titled *Dugard's International Law: A South African Perspective*, in recognition of the fact that this work is a continuation of the earlier editions written by John Dugard. The substance of the work has undergone major changes to take account of new developments both on the international legal scene and in South Africa. *Dugard's International Law: A South African Perspective* presents a South African perspective of

international law. The basic principles of international law are described and examined with reference to the principal sources of international law. This examination, however, takes place within the context of South African law. South African state practice, judicial decisions and legislation on international law receive equal treatment with international law as it is practised and taught abroad. The present work is designed to assist judicial officers and practitioners, educate students, and guide diplomats in the intricacies of international law both at home in South Africa and abroad.

U. S. Government Research and Development Reports - 1969-07

Aircraft Metal Work - United States. Bureau of Naval Personnel 1945

Engineering a Compiler - Keith Cooper 2011-01-18

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

Analyzing Qualitative Data - Graham R Gibbs 2018-09-03

This book tackles the challenges of how to make sense of qualitative data. It offers students and researchers a hands-on guide to the

practicalities of coding, comparing data, and using computer-assisted qualitative data analysis. Lastly, Gibbs shows you how to bring it all together, so you can see the steps of qualitative analysis, understand the central place of coding, ensure analytic quality and write effectively to present your results.

Economic and Management Sciences, Grade 8 - Marietjie Barnard 2013-07-11

Study & master economic and management sciences grade 8 has been especially developed by an experienced author team for the Curriculum and Assessment Policy Statement (CAPS). This new and easy-to-use course helps learners to master essential content and skills in economic and management sciences.

Applied Thematic Analysis - Greg Guest 2012

This book provides step-by-step instructions on how to analyze text generated from in-depth interviews and focus groups, relating predominantly to applied qualitative studies. The book covers all aspects of the qualitative data analysis process, employing a phenomenological approach which has a primary aim of describing the experiences and perceptions of research participants. Similar to Grounded Theory, the authors' approach is inductive, content-driven, and searches for themes within textual data.

Machine Drawing - K. L. Narayana 2009-06-30

About the Book: Written by three distinguished authors with ample academic and teaching experience, this textbook, meant for diploma and degree students of Mechanical Engineering as well as those preparing for AMIE examination, incorporates the latest st

U.S. Government Research & Development Reports - 1968

Scientific and Technical Aerospace Reports - 1994

Quantum Computing - National Academies of Sciences, Engineering, and Medicine 2019-04-27
Quantum mechanics, the subfield of physics that describes the behavior of very small (quantum) particles, provides the basis for a new paradigm of computing. First proposed in the 1980s as a way to improve computational modeling of quantum systems, the field of quantum computing has recently garnered significant attention due to progress in building small-scale

devices. However, significant technical advances will be required before a large-scale, practical quantum computer can be achieved. *Quantum Computing: Progress and Prospects* provides an introduction to the field, including the unique characteristics and constraints of the technology, and assesses the feasibility and implications of creating a functional quantum computer capable of addressing real-world

problems. This report considers hardware and software requirements, quantum algorithms, drivers of advances in quantum computing and quantum devices, benchmarks associated with relevant use cases, the time and resources required, and how to assess the probability of success.

Bibliography of Scientific and Industrial Reports
- 1970