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Diskrete algebraische Methoden - Volker Diekert
2013-05-28

Bei diskreten algebraischen Methoden handelt es sich um ein zukunftsweisendes Gebiet, dessen

Grundlagen weiter an Bedeutung gewinnen werden. Die Grundidee des vorliegenden Lehrbuchs ist, wesentliche Elemente der diskreten Mathematik zu vermitteln, um die modernen Entwicklungen im Informationszeitalter kompetent mathematisch beurteilen zu können. Es beginnt mit einem allgemeinen Kapitel über algebraische Strukturen, welches die Grundlage für das gesamte Buch bereitstellt. Das folgende Kapitel vermittelt Grundkenntnisse in Kryptographie. Kapitel 3 über zahlentheoretische Algorithmen ist wichtig für das Erzeugen von Kryptosystemen, für die beispielsweise große "zufällige" Primzahlen benötigt werden. In Kapitel 4 über Primzahlerkennung in Polynomialzeit stellen die Autoren den deterministischen Polynomialzeittest von Agrawal, Kayal und Saxena vor. Im folgenden Kapitel über elliptische Kurven stehen wieder die zahlentheoretischen und kryptographischen Anwendungen im Vordergrund. Mit den beiden

Kapiteln "Kombinatorik auf Wörtern" und "Automatentheorie" begibt sich der Leser in das Teilgebiet der theoretischen Informatik, in dem die Halbgruppentheorie eine zentrale Rolle spielt. Das letzte Kapitel widmet sich diskreten unendlichen Gruppen. Das Buch ergänzt und vertieft Grundlagen und zeigt mögliche Anwendungen auf. Es werden aber auch Themen behandelt, die über den Standardstoff hinaus gehen. Einen hohen Stellenwert nehmen Aufgaben und Lösungen ein. Für alle wichtigen Aussagen geben die Autoren vollständige Beweise an. Am Ende eines jeden Kapitels sind kurze Kapitelzusammenfassungen als Lern- und Merkhilfe hinzugefügt. Das Buch wendet sich an Masterstudierende der Mathematik und Informatik mit fortgeschrittenen Kenntnissen in Mathematik. Die behandelten Grundlagen sind keine bloßen Aneinanderreihungen von Definitionen und elementaren Zusammenhängen. Das Buch vermittelt ein tieferes Verständnis für die behandelten

mathematischen Zusammenhänge und stellt Wissen, Techniken und Denkweisen vor, welche den Leser in die Lage versetzen, selbstständig mathematische Probleme zu lösen.

Introduction to Combinatorial Testing - D.

Richard Kuhn 2013-06-20

Combinatorial testing of software analyzes interactions among variables using a very small number of tests. This advanced approach has demonstrated success in providing strong, low-cost testing in real-world situations. Introduction to Combinatorial Testing presents a complete self-contained tutorial on advanced combinatorial testing methods for real-world software. The book introduces key concepts and procedures of combinatorial testing, explains how to use software tools for generating combinatorial tests, and shows how this approach can be integrated with existing practice. Detailed explanations and examples clarify how and why to use various techniques. Sections on cost and practical considerations

describe tradeoffs and limitations that may impact resources or funding. While the authors introduce some of the theory and mathematics of combinatorial methods, readers can use the methods without in-depth knowledge of the underlying mathematics. Accessible to undergraduate students and researchers in computer science and engineering, this book illustrates the practical application of combinatorial methods in software testing. Giving pointers to freely available tools and offering resources on a supplementary website, the book encourages readers to apply these methods in their own testing projects.

Statistical Inference: Testing Of Hypotheses -
Srivastava & Srivastava 2009

Research in Education - 1974

A History of Mathematical Notations -

Florian Cajori 1993-01-01

This classic study notes the first appearance of a

mathematical symbol and its origin, the competition it encountered, its spread among writers in different countries, its rise to popularity, and its eventual decline or ultimate survival. Originally published in 1929 in a two-volume edition, this monumental work is presented here in a single volume.

Encyclopedia of Mathematics Education - Louise Grinstein 2001-03-15

First published in 2001. Routledge is an imprint of Taylor & Francis, an informa company.

Mathematical Logic - Joel W. Robbin 2006-07-07

This self-contained text will appeal to readers from diverse fields and varying backgrounds. Topics include 1st-order recursive arithmetic, 1st- and 2nd-order logic, and the arithmetization of syntax. Numerous exercises; some solutions. 1969 edition.

Reliability, Life Testing and the Prediction of Service Lives - Sam C. Saunders 2010-04-26

This book is intended for students and practitioners who have had a calculus-based

statistics course and who have an interest in safety considerations such as reliability, strength, and duration-of-load or service life. Many persons studying statistical science will be employed professionally where the problems encountered are obscure, what should be analyzed is not clear, the appropriate assumptions are equivocal, and data are scant.

In this book there is no disclosure with many of the data sets what type of investigation should be made or what assumptions are to be used.

Introduction to Numerical Methods for Time Dependent Differential Equations - Heinz-Otto Kreiss 2014-04-24

Introduces both the fundamentals of time dependent differential equations and their numerical solutions Introduction to Numerical Methods for Time Dependent Differential Equations delves into the underlying mathematical theory needed to solve time dependent differential equations numerically. Written as a self-contained introduction, the

book is divided into two parts to emphasize both ordinary differential equations (ODEs) and partial differential equations (PDEs). Beginning with ODEs and their approximations, the authors provide a crucial presentation of fundamental notions, such as the theory of scalar equations, finite difference approximations, and the Explicit Euler method. Next, a discussion on higher order approximations, implicit methods, multistep methods, Fourier interpolation, PDEs in one space dimension as well as their related systems is provided. Introduction to Numerical Methods for Time Dependent Differential Equations features: A step-by-step discussion of the procedures needed to prove the stability of difference approximations Multiple exercises throughout with select answers, providing readers with a practical guide to understanding the approximations of differential equations A simplified approach in a one space dimension Analytical theory for difference approximations that is particularly useful to clarify procedures

Introduction to Numerical Methods for Time Dependent Differential Equations is an excellent textbook for upper-undergraduate courses in applied mathematics, engineering, and physics as well as a useful reference for physical scientists, engineers, numerical analysts, and mathematical modelers who use numerical experiments to test designs or predict and investigate phenomena from many disciplines. College of Engineering - University of Michigan. College of Engineering 1970

An Introduction to Probability Theory and Mathematical Statistics - V. K. Rohatgi
1976-04-07

Sets and classes; Calculus; Linear Algebra; Probability; Random variables and their probability distributions; Moments and generating functions; Random vectors; Some special distributions; Limit theorems; Sample moments and their distributions; The theory of point estimation; Neyman-pearson theory of

testing of hypotheses; Some further results on hypotheses testing; Confidence estimation; The general linear hypothesis; nonparametric statistical inference; Sequential statistical inference.

Statistical Theory - Felix Abramovich 2013-04-25

Designed for a one-semester advanced undergraduate or graduate course, *Statistical Theory: A Concise Introduction* clearly explains the underlying ideas and principles of major statistical concepts, including parameter estimation, confidence intervals, hypothesis testing, asymptotic analysis, Bayesian inference, and elements of decision theory. It introduces these topics on a clear intuitive level using illustrative examples in addition to the formal definitions, theorems, and proofs. Based on the authors' lecture notes, this student-oriented, self-contained book maintains a proper balance between the clarity and rigor of exposition. In a few cases, the authors present a "sketched" version of a proof, explaining its main ideas

rather than giving detailed technical mathematical and probabilistic arguments. Chapters and sections marked by asterisks contain more advanced topics and may be omitted. A special chapter on linear models shows how the main theoretical concepts can be applied to the well-known and frequently used statistical tool of linear regression. Requiring no heavy calculus, simple questions throughout the text help students check their understanding of the material. Each chapter also includes a set of exercises that range in level of difficulty.

Stewart's Mathematical Series. Guide to the Study of Mathematics for the B.A. And B.Sc. Examinations of the University of London; -

Arthur L. Sparkes 2017-10

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private collections around the world. The titles that Trieste Publishing has chosen to be part of the collection have been scanned to simulate the original. Our readers see the books the same way that their first readers did decades or a hundred or more years ago. Books from that period are often spoiled by imperfections that did not exist in the original. Imperfections could be in the form of blurred text, photographs, or missing pages. It is highly unlikely that this would occur with one of our books. Our extensive quality control ensures that the readers of Trieste Publishing's books will be delighted with their purchase. Our staff has thoroughly reviewed every page of all the books in the collection, repairing, or if necessary, rejecting titles that are not of the highest quality. This process ensures that the reader of one of Trieste Publishing's titles receives a volume that faithfully reproduces the original, and to the maximum degree possible, gives them the experience of owning the original work. We

pride ourselves on not only creating a pathway to an extensive reservoir of books of the finest quality, but also providing value to every one of our readers. Generally, Trieste books are purchased singly - on demand, however they may also be purchased in bulk. Readers interested in bulk purchases are invited to contact us directly to enquire about our tailored bulk rates.

Ordinary Differential Equations - James Morris Page 2017-07-24

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hundred or more years ago. Books from that period are often spoiled by imperfections that did not exist in the original. Imperfections could be in the form of blurred text, photographs, or missing pages. It is highly unlikely that this would occur with one of our books. Our extensive quality control ensures that the readers of Trieste Publishing's books will be delighted with their purchase. Our staff has thoroughly reviewed every page of all the books in the collection, repairing, or if necessary, rejecting titles that are not of the highest quality. This process ensures that the reader of one of Trieste Publishing's titles receives a volume that faithfully reproduces the original, and to the maximum degree possible, gives them the experience of owning the original work. We pride ourselves on not only creating a pathway to an extensive reservoir of books of the finest quality, but also providing value to every one of our readers. Generally, Trieste books are purchased singly - on demand, however they

may also be purchased in bulk. Readers interested in bulk purchases are invited to contact us directly to enquire about our tailored bulk rates.

Guide to Discrete Mathematics - Gerard O'Regan 2021-10-28

This stimulating textbook presents a broad and accessible guide to the fundamentals of discrete mathematics, highlighting how the techniques may be applied to various exciting areas in computing. The text is designed to motivate and inspire the reader, encouraging further study in this important skill. Features: This book provides an introduction to the building blocks of discrete mathematics, including sets, relations and functions; describes the basics of number theory, the techniques of induction and recursion, and the applications of mathematical sequences, series, permutations, and combinations; presents the essentials of algebra; explains the fundamentals of automata theory, matrices, graph theory, cryptography, coding

theory, language theory, and the concepts of computability and decidability; reviews the history of logic, discussing propositional and predicate logic, as well as advanced topics such as the nature of theorem proving; examines the field of software engineering, including software reliability and dependability and describes formal methods; investigates probability and statistics and presents an overview of operations research and financial mathematics.

Resources in Education - 1996

Mathematical Statistics and Applications - Marc Moore 2003

Number Theory - Benjamin Fine 2016-09-19
Now in its second edition, this textbook provides an introduction and overview of number theory based on the density and properties of the prime numbers. This unique approach offers both a firm background in the standard material of number theory, as well as an overview of the

entire discipline. All of the essential topics are covered, such as the fundamental theorem of arithmetic, theory of congruences, quadratic reciprocity, arithmetic functions, and the distribution of primes. New in this edition are coverage of p -adic numbers, Hensel's lemma, multiple zeta-values, and elliptic curve methods in primality testing. Key topics and features include: A solid introduction to analytic number theory, including full proofs of Dirichlet's Theorem and the Prime Number Theorem Concise treatment of algebraic number theory, including a complete presentation of primes, prime factorizations in algebraic number fields, and unique factorization of ideals Discussion of the AKS algorithm, which shows that primality testing is one of polynomial time, a topic not usually included in such texts Many interesting ancillary topics, such as primality testing and cryptography, Fermat and Mersenne numbers, and Carmichael numbers The user-friendly style, historical context, and wide range of exercises

that range from simple to quite difficult (with solutions and hints provided for select exercises) make *Number Theory: An Introduction via the Density of Primes* ideal for both self-study and classroom use. Intended for upper level undergraduates and beginning graduates, the only prerequisites are a basic knowledge of calculus, multivariable calculus, and some linear algebra. All necessary concepts from abstract algebra and complex analysis are introduced where needed.

Real Analysis via Sequences and Series -

Charles H.C. Little 2015-05-28

This text gives a rigorous treatment of the foundations of calculus. In contrast to more traditional approaches, infinite sequences and series are placed at the forefront. The approach taken has not only the merit of simplicity, but students are well placed to understand and appreciate more sophisticated concepts in advanced mathematics. The authors mitigate potential difficulties in mastering the material by

motivating definitions, results and proofs. Simple examples are provided to illustrate new material and exercises are included at the end of most sections. Noteworthy topics include: an extensive discussion of convergence tests for infinite series, Wallis's formula and Stirling's formula, proofs of the irrationality of π and e and a treatment of Newton's method as a special instance of finding fixed points of iterated functions.

An Introduction to Infinite Products -

Charles H. C. Little 2022-01-10

This text provides a detailed presentation of the main results for infinite products, as well as several applications. The target readership is a student familiar with the basics of real analysis of a single variable and a first course in complex analysis up to and including the calculus of residues. The book provides a detailed treatment of the main theoretical results and applications with a goal of providing the reader with a short introduction and motivation for present and

future study. While the coverage does not include an exhaustive compilation of results, the reader will be armed with an understanding of infinite products within the course of more advanced studies, and, inspired by the sheer beauty of the mathematics. The book will serve as a reference for students of mathematics, physics and engineering, at the level of senior undergraduate or beginning graduate level, who want to know more about infinite products. It will also be of interest to instructors who teach courses that involve infinite products as well as mathematicians who wish to dive deeper into the subject. One could certainly design a special-topics class based on this book for undergraduates. The exercises give the reader a good opportunity to test their understanding of each section.

Publications on Geodesy - 1991

Test Theory for a New Generation of Tests - Norman Frederiksen 1993

First Published in 1992. Routledge is an imprint of Taylor & Francis, an informa company.

The Sequential Statistical Analysis of Hypothesis Testing, Point and Interval Estimation, and Decision Theory - Z. Govindarajulu 1981

The sequential probability ratio test; Sequential tests for composite hypotheses; Sequential estimation; Specific problems in sequential estimation; Optimal stopping problem: the secretary problem.

General Register - University of Michigan 1951
Announcements for the following year included in some vols.

Examples and Problems in Mathematical Statistics - Shelemyahu Zacks 2013-12-17

Provides the necessary skills to solve problems in mathematical statistics through theory, concrete examples, and exercises With a clear and detailed approach to the fundamentals of statistical theory, Examples and Problems in Mathematical Statistics uniquely bridges the gap between theory and application and presents

numerous problem-solving examples that illustrate the related notations and proven results. Written by an established authority in probability and mathematical statistics, each chapter begins with a theoretical presentation to introduce both the topic and the important results in an effort to aid in overall comprehension. Examples are then provided, followed by problems, and finally, solutions to some of the earlier problems. In addition, *Examples and Problems in Mathematical Statistics* features: Over 160 practical and interesting real-world examples from a variety of fields including engineering, mathematics, and statistics to help readers become proficient in theoretical problem solving More than 430 unique exercises with select solutions Key statistical inference topics, such as probability theory, statistical distributions, sufficient statistics, information in samples, testing statistical hypotheses, statistical estimation, confidence and tolerance intervals, large sample

theory, and Bayesian analysis Recommended for graduate-level courses in probability and statistical inference, *Examples and Problems in Mathematical Statistics* is also an ideal reference for applied statisticians and researchers.

Computerized Adaptive Testing: Theory and Practice - Wim J. van der Linden 2007-05-08

This book offers a comprehensive introduction to the latest developments in the theory and practice of CAT. It can be used both as a basic reference and a valuable resource on test theory. It covers such topics as item selection and ability estimation, item pool development and maintenance, item calibration and model fit, and testlet-based adaptive testing, as well as the operational aspects of existing large-scale CAT programs.

Stochastic Models for Geodesy and Geoinformation Science - Frank Neitzel
2021-02-12

In geodesy and geoinformation science, as well

as in many other technical disciplines, it is often not possible to directly determine the desired target quantities. Therefore, the unknown parameters must be linked with the measured values by a mathematical model which consists of the functional and the stochastic models. The functional model describes the geometrical-physical relationship between the measurements and the unknown parameters. This relationship is sufficiently well known for most applications. With regard to the stochastic model, two problem domains of fundamental importance arise: 1. How can stochastic models be set up as realistically as possible for the various geodetic observation methods and sensor systems? 2. How can the stochastic information be adequately considered in appropriate least squares adjustment models? Further questions include the interpretation of the stochastic properties of the computed target values with regard to precision and reliability and the use of the results for the detection of

outliers in the input data (measurements). In this Special Issue, current research results on these general questions are presented in ten peer-reviewed articles. The basic findings can be applied to all technical scientific fields where measurements are used for the determination of parameters to describe geometric or physical phenomena.

Book Catalog of the Library and Information Services Division: Shelf List catalog - Environmental Science Information Center. Library and Information Services Division 1977

General Register - University of Michigan 1959

Handbook of Test Development - Suzanne Lane 2015-10-08

The second edition of the Handbook of Test Development provides graduate students and professionals with an up-to-date, research-oriented guide to the latest developments in the field. Including thirty-two chapters by well-

known scholars and practitioners, it is divided into five sections, covering the foundations of test development, content definition, item development, test design and form assembly, and the processes of test administration, documentation, and evaluation. Keenly aware of developments in the field since the publication of the first edition, including changes in technology, the evolution of psychometric theory, and the increased demands for effective tests via educational policy, the editors of this edition include new chapters on assessing noncognitive skills, measuring growth and learning progressions, automated item generation and test assembly, and computerized scoring of constructed responses. The volume also includes expanded coverage of performance testing, validity, fairness, and numerous other topics. Edited by Suzanne Lane, Mark R. Raymond, and Thomas M. Haladyna, *The Handbook of Test Development*, 2nd edition, is based on the revised Standards for Educational

and Psychological Testing, and is appropriate for graduate courses and seminars that deal with test development and usage, professional testing services and credentialing agencies, state and local boards of education, and academic libraries serving these groups.

Mastering Modern Psychological Testing -
Cecil R. Reynolds 2021-05-13

This book provides a comprehensive introduction to psychological assessment and covers areas not typically addressed in existing test and measurements texts, such as neuropsychological assessment and the use of tests in forensics settings. The book introduces the vocabulary of the profession and the most basic mathematics of testing early as being fundamental to understanding the field. Numerous examples are drawn from tests that the authors have written or otherwise helped to develop, reflecting the authors' deep understanding of these tests and their familiarity with problems encountered in test development,

use, and interpretation. Following the introduction of the basic areas of psychometrics, the book moves to areas of testing that represent various approaches to measuring different psychological constructs (memory, language, executive function, etc.), with emphasis on the complex issue of cultural bias in testing. Examples of existing tests are given throughout the book; however, this book is not designed to prepare students to go out and administer, score, and interpret specific psychological tests. Rather, the purpose of this book is to provide the foundational core of knowledge about tests, measurement, and assessment constructs, issues, and quantitative tools. Explains what constitutes a psychological test, how tests are developed, how they are best used, and how to evaluate their strengths and weaknesses; Describes areas of testing that represent different approaches to measuring different psychological constructs; Explains applications of psychological testing to issues in

the courts; Addresses how test authors and publishers design and research tests to address the difficult and demanding issues of cultural differences in test performance and interpretation of test results.

University of Michigan Official Publication - 1944

Mathematics in Computing - Gerard O'Regan
2020-01-10

This illuminating textbook provides a concise review of the core concepts in mathematics essential to computer scientists. Emphasis is placed on the practical computing applications enabled by seemingly abstract mathematical ideas, presented within their historical context. The text spans a broad selection of key topics, ranging from the use of finite field theory to correct code and the role of number theory in cryptography, to the value of graph theory when modelling networks and the importance of formal methods for safety critical systems. This

fully updated new edition has been expanded with a more comprehensive treatment of algorithms, logic, automata theory, model checking, software reliability and dependability, algebra, sequences and series, and mathematical induction. Topics and features: includes numerous pedagogical features, such as chapter-opening key topics, chapter introductions and summaries, review questions, and a glossary; describes the historical contributions of such prominent figures as Leibniz, Babbage, Boole, and von Neumann; introduces the fundamental mathematical concepts of sets, relations and functions, along with the basics of number theory, algebra, algorithms, and matrices; explores arithmetic and geometric sequences and series, mathematical induction and recursion, graph theory, computability and decidability, and automata theory; reviews the core issues of coding theory, language theory, software engineering, and software reliability, as well as

formal methods and model checking; covers key topics on logic, from ancient Greek contributions to modern applications in AI, and discusses the nature of mathematical proof and theorem proving; presents a short introduction to probability and statistics, complex numbers and quaternions, and calculus. This engaging and easy-to-understand book will appeal to students of computer science wishing for an overview of the mathematics used in computing, and to mathematicians curious about how their subject is applied in the field of computer science. The book will also capture the interest of the motivated general reader.

Mathematical Theory and Computational Practice - Klaus Ambos-Spies 2009-07-15

This book constitutes the proceedings of the 5th Conference on Computability in Europe, CiE 2009, held in Heidelberg, Germany, during July 19-24, 2009. The 34 papers presented together with 17 invited lectures were carefully reviewed and selected from 100 submissions. The aims of

the conference is to advance our theoretical understanding of what can and cannot be computed, by any means of computation. It is the largest international meeting focused on computability theoretic issues.

Probability Theory and Mathematical Statistics - 2020-05-05

Chaos: A Mathematical Introduction - John Banks 2003-05-08

Presents an introduction to chaos theory.

Computerized Adaptive Testing: Theory and Practice - Wim J. Linden 2000-07-31

This book offers a comprehensive introduction to the latest developments in the theory and practice of CAT. It can be used both as a basic reference and a valuable resource on test theory. It covers such topics as item selection and ability estimation, item pool development and maintenance, item calibration and model fit, and testlet-based adaptive testing, as well as the operational aspects of existing large-scale CAT

programs.

Introduction to Mathematical Control Theory - Stephen Barnett 1985

In this new edition of a successful text, Professor Barnett, now joined in the authorship by Dr. Cameron, has concentrated on adding material where topics have developed since the first edition, and they have also taken advantage of the extensive classroom testing that has been possible in the intervening years. The book remains the concise readable account of some basic mathematical aspects of control, concentrating on state-space methods and emphasizing points of mathematical interest. As far as the additional material is concerned, the new chapter on multivariable theory reflects some of the significant developments in that field during the past decade, and there is also now an appendix on Kalman filtering. All references have been updated and a large number of new problems for student use have been incorporated.

*Stochastische Integration und
Zeitreihenmodellierung* - Uwe Hassler

2007-09-21

Stochastische Integralrechnung und
Zeitreihenmodellierung spielen für
Wirtschaftswissenschaftler eine entscheidende
Rolle bei der Modellierung von Finanzmärkten
und für die statistische Inferenz instationärer
Zeitreihen. Die elementare und zugleich rigorose
Einführung betrachtet beide Gebiete. Leser
lernen so die modernen Methoden der
mathematischen Finanzierungstheorie und der
Zeitreihenökonometrie kennen. Am Ende eines
jeden Kapitels finden sich über 100 Probleme
und Übungsaufgaben samt kompletter Lösung,
welche weitere technische Details und Beweise
enthalten. Plus: anschauliche Beispiele und
möglichst wenig mathematische Ableitungen.

Principles of Test Theories - Hoi K. Suen

2012-11-12

Based on a tremendous increase in the
development of psychometric theories in the
past decade -- ranging from techniques for
criterion-referenced testing to behavioral
assessment, generalizability, and item response
theory -- this book offers a summary of core
issues. In so doing, it provides a comprehensive
survey of reliability, validity, and item analysis
from the perspectives of classical true-score
model, generalizability theory, item response
theory, criterion-referenced testing, and
behavioral assessment. Related theoretical
issues such as item bias, equating, and cut-score
determination are also discussed. This is an
excellent text for courses in statistics, research
methods, behavioral medicine and cognitive
science as well as educational, school,
experimental, counseling/social, clinical,
developmental, and personality psychology.