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Fundamentals of Number Theory William J. LeVeque 2014-01-05 DIVBasic treatment, incorporating language of abstract algebra and a history of the discipline. Unique factorization and the GCD, quadratic residues, sums of squares, much more. Numerous problems. Bibliography. 1977 edition. /div

Modification Marcin Morzycki 2016 An accessible guide to the linguistic semantics of adjectives, adverbs, gradability, vagueness, comparatives, and modification more generally.

Handbook of Research on Smart Technology Models for Business and Industry Thomas, J. Joshua 2020-06-19 Advances in machine learning techniques and ever-increasing computing power has helped create a new generation of hardware and software technologies with practical applications for nearly every industry. As the progress has, in turn, excited the interest of venture investors, technology firms, and a growing number of clients, implementing intelligent automation in both physical and information systems has become a must in business. Handbook of Research on Smart Technology Models for Business and Industry is an essential reference source that discusses relevant abstract frameworks and the latest experimental research findings in theory, mathematical models, software applications, and prototypes in the area of smart technologies. Featuring research on topics such as digital security, renewable energy, and intelligence management, this book is ideally designed for machine learning specialists, industrial experts, data scientists, researchers, academicians, students, and business professionals seeking coverage on current smart technology models.

Massive Graph Analytics David A. Bader 2022-07-22 "Graphs. Such a simple idea. Map a problem onto a graph then solve it by searching over the graph or by exploring the structure of the graph. What could be easier? Turns out, however, that working with graphs is a vast and complex field. Keeping up is challenging. To help keep up, you just need an editor who knows most people working with graphs, and have that editor gather nearly 70 researchers to summarize their work with graphs. The result is the book Massive Graph Analytics." — Timothy G Mattson, Senior Principal Engineer, Intel Corp Expertise in massive-scale graph analytics is key for solving real-world grand challenges from health to sustainability to detecting insider threats, cyber defense, and more. This book provides a comprehensive introduction to massive graph analytics, featuring contributions from thought leaders across academia, industry, and government. Massive Graph Analytics will be beneficial to students, researchers, and practitioners in academia, national laboratories, and industry who wish to learn about the state-of-the-art algorithms, models, frameworks, and software in massive-scale graph analytics.

Guide to Discrete Mathematics Gerard O'Regan 2016-09-16 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: 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; examines the field of software engineering, describing formal methods; investigates probability and statistics.

Matrices with Applications Hugh G. Campbell 1968

Linear Algebra as an Introduction to Abstract Mathematics Isaiah Lankham 2015-11-30 This is an introductory textbook designed for undergraduate mathematics majors with an emphasis on abstraction and in particular, the concept of proofs in the setting of linear algebra. Typically such a student would have taken calculus, though the only prerequisite is suitable mathematical grounding. The purpose of this book is to bridge the gap between the more conceptual and computational oriented undergraduate classes to the more abstract oriented classes. The book begins with systems of linear equations and complex numbers, then relates these to the abstract notion of linear maps on finite-dimensional vector spaces, and covers diagonalization, eigenspaces, determinants, and the Spectral Theorem. Each chapter concludes with both proof-writing and computational exercises.

Digital Teaching and Learning in Higher Education Leonid Chechurin 2022-12-03 This book explores the challenges and opportunities faced by universities as they move to digital education. The COVID-19 pandemic as well as students' increasing levels of comfort with digital technology has accelerated the digitalization of learning and teaching, even among teachers who are less confident. The editor and contributors ask how successful digital teaching materials can be developed, what are the unique benefits of this type of teaching and how it can be linked with industry and society so as to better aid the development of student learning. The book maintains that the digital educator should be able to orchestrate diversity in the supply of digital teaching materials and project-based learning to meet the needs of students and prepare them for their future careers. Leonid Chechurin is Professor for Industrial Engineering and Management Unit of School of Engineering Science or Lappeenranta-Lahti University of Technology, FINLAND.

A Course in Linear Algebra with Applications Derek J S Robinson 2006-08-15 This is the second edition of the best-selling introduction to linear algebra. Presupposing no knowledge beyond calculus, it provides a thorough treatment of all the basic concepts, such as vector space, linear transformation and inner product. The concept of a quotient space is introduced and related to solutions of linear system of equations, and a simplified treatment of Jordan normal form is given. Numerous applications of linear algebra are described, including systems of linear recurrence relations, systems of linear differential equations, Markov processes, and the Method of Least Squares. An entirely new chapter on linear programing introduces the reader to the simplex algorithm with emphasis on understanding the theory behind it. The book is addressed to students who wish to learn linear algebra, as well as to professionals who need to use the methods of the subject in their own fields.

The Dhaka University Studies 1993

Encyclopedia of Information Science and Technology Mehdi Khosrow-Pour 2009 "This set of books represents a detailed compendium of authoritative, research-based entries that define the contemporary state of knowledge on technology"--Provided by publisher.

High-Performance Modelling and Simulation for Big Data Applications Joanna Kołodziej 2019-03-25 This open access book was prepared as a Final Publication of the COST Action IC1406 "High-Performance Modelling and Simulation for Big Data Applications (cHiPSet)" project. Long considered important pillars of the scientific method, Modelling and Simulation have evolved from traditional discrete numerical methods to complex data-intensive continuous analytical optimisations. Resolution, scale, and accuracy have become essential to predict and analyse natural and complex systems in science and engineering. When their level of abstraction raises to have a better discernment of the domain at hand, their representation gets increasingly demanding for computational and data resources. On the other hand, High Performance Computing typically entails the effective use of parallel and distributed processing units coupled with efficient storage, communication and visualisation systems to underpin complex data-intensive applications in distinct scientific and technical domains. It is then arguably required to have a seamless interaction of High Performance Computing with Modelling and Simulation in order to store, compute, analyse, and visualise large data sets in science and engineering. Funded by the European Commission, cHiPSet has provided a dynamic trans-European forum for their members and distinguished guests to openly discuss novel perspectives and topics of

interests for these two communities. This cHiPSet compendium presents a set of selected case studies related to healthcare, biological data, computational advertising, multimedia, finance, bioinformatics, and telecommunications.

Elementary Linear Programming with Applications Bernard Kolman 2014-05-10 Elementary Linear Programming with Applications presents a survey of the basic ideas in linear programming and related areas. It also provides students with some of the tools used in solving difficult problems which will prove useful in their professional career. The text is comprised of six chapters. The Prologue gives a brief survey of operations research and discusses the different steps in solving an operations research problem. Chapter 0 gives a quick review of the necessary linear algebra. Chapter 1 deals with the basic necessary geometric ideas in Rn. Chapter 2 introduces linear programming with examples of the problems to be considered, and presents the simplex method as an algorithm for solving linear programming problems. Chapter 3 covers further topics in linear programming, including duality theory and sensitivity analysis. Chapter 4 presents an introduction to integer programming. Chapter 5 covers a few of the more important topics in network flows. Students of business, engineering, computer science, and mathematics will find the book very useful.

Medieval Islamic Civilization Josef W. Meri 2005-10-31 Medieval Islamic Civilization examines the socio-cultural history of the regions where Islam took hold between the seventh and sixteenth century. This important two-volume work contains over 700 alphabetically arranged entries, contributed and signed by international scholars and experts in fields such as Arabic languages, Arabic literature, architecture, art history, history, history of science, Islamic arts, Islamic studies, Middle Eastern studies, Near Eastern studies, politics, religion, Semitic studies, theology, and more. This reference provides an exhaustive and vivid portrait of Islamic civilization including the many scientific, artistic, and religious developments as well as all aspects of daily life and culture. For a full list of entries, contributors, and more, visit www.routledge-ny.com/middleages/Islamic.

Cohomology of Arithmetic Groups James W. Cogdell 2018-08-18 This book discusses the mathematical interests of Joachim Schwermer, who throughout his career has focused on the cohomology of arithmetic groups, automorphic forms and the geometry of arithmetic manifolds. To mark his 66th birthday, the editors brought together mathematical experts to offer an overview of the current state of research in these and related areas. The result is this book, with contributions ranging from topology to arithmetic. It probes the relation between cohomology of arithmetic groups and automorphic forms and their L-functions, and spans the range from classical Bianchi groups to the theory of Shimura varieties. It is a valuable reference for both experts in the fields and for graduate students and postdocs wanting to discover where the current frontiers lie.

Routledge Revivals: Medieval Islamic Civilization (2006) Josef Meri 2018-01-12 Islamic civilization flourished in the Middle Ages across a vast geographical area that spans today's Middle and Near East. First published in 2006, Medieval Islamic Civilization examines the socio-cultural history of the regions where Islam took hold between the 7th and 16th centuries. This important two-volume work contains over 700 alphabetically arranged entries, contributed and signed by international scholars and experts in fields such as Arabic languages, Arabic literature, architecture, history of science, Islamic arts, Islamic studies, Middle Eastern studies, Near Eastern studies, politics, religion, Semitic studies, theology, and more. Entries also explore the importance of interfaith relations and the permeation of persons, ideas, and objects across geographical and intellectual boundaries between Europe and the Islamic world. This reference work provides an exhaustive and vivid portrait of Islamic civilization and brings together in one authoritative text all aspects of Islamic civilization during the Middle Ages. Accessible to scholars, students and non-specialists, this resource will be of great use in research and understanding of the roots of today's Islamic society as well as the rich and vivid culture of medieval Islamic civilization.

Catalogue of British Official Publications Not Published by HMSO. 1997

Science and Technology in Medieval India Abdur Rahman 1982

History of Indian Science, Technology, and Culture, A.D. 1000-1800 Abdur Rahman 1999 This volume brings together some of today's leading scholars from a range of different disciplines to explore the development of Indian scientific, technological and cultural thinking between the 10th and 18th centuries. The diverse topics include: food, agriculture, mathematics, astronomy, Bhakti and Sufi movements, and the spread of translation from Persian and Arabic thinkers throughout the country.

The Dacca University Studies 1975

A Brief Survey of Muslim Contribution to Science and Culture Mohammad Abdur Rahman Khan 1959

Applications of Tensor Analysis A. J. McConnell 2014-06-10 DIVTensor theory, applications to dynamics, electricity, elasticity, hydrodynamics, etc. Level is advanced undergraduate. Over 500 solved problems. /div

Handbook of Discrete and Combinatorial Mathematics Kenneth H. Rosen 2017-10-19 Handbook of Discrete and Combinatorial Mathematics provides a comprehensive reference volume for mathematicians, computer scientists, engineers, as well as students and reference librarians. The material is presented so that key information can be located and used quickly and easily. Each chapter includes a glossary. Individual topics are covered in sections and subsections within chapters, each of which is organized into clearly identifiable parts: definitions, facts, and examples. Examples are provided to illustrate some of the key definitions, facts, and algorithms. Some curious and entertaining facts and puzzles are also included. Readers will also find an extensive collection of biographies. This second edition is a major revision. It includes extensive additions and updates. Since the first edition appeared in 1999, many new discoveries have been made and new areas have grown in importance, which are covered in this edition.

Index of the American Mathematical Monthly Kenneth Ownsworth May 1977

National Union Catalog 1973

Integral Equations and Their Applications Matiur Rahman 2007 The book deals with linear integral equations, that is, equations involving an unknown function which appears under the integral sign and contains topics such as Abel's integral equation, Volterra integral equations, Fredholm integral integral equations, singular and nonlinear integral equations, orthogonal systems of functions, Green's function as a symmetric kernel of the integral equations.

Analytical Geometry 2D and 3D Vittal 2013 Designed to meet the requirements of UG students, the book deals with the theoretical as well as the practical aspects of the subject. Equal emphasis has been given to both 2D as well as 3D geometry. The book follows a systematic approach with adequate examples for better understanding of the concepts.

The American Mathematical Monthly 1977

Basic Mathematics for Economists Mike Rosser 2003-12-08 Economics students will welcome the new edition of this excellent textbook. Mathematics is an integral part of economics and understanding basic concepts is vital. Many students come into economics courses without having studied mathematics for a number of years. This clearly written book will help to develop quantitative skills in even the least numerate student up to the required level for a general Economics or Business Studies course. This second edition features new sections on subjects such as: matrix algebra part year investment financial mathematics Improved pedagogical features, such as learning objectives and end of chapter questions, along with the use of Microsoft Excel and the overall example-led style of the book means that it will be a sure fire hit with both students and their lecturers.

The National Union Catalogs, 1963- 1964

Intuition in Science and Mathematics H. Fischbein 2006-04-11 In writing the present book I have had in mind the following objectives: - To propose a theoretical, comprehensive view of the domain of intuition. - To identify and organize the experimental findings related to intuition scattered in a wide variety of research contexts. - To reveal the educational implications of the idea, developed for science and mathematics education. Most of the existing monographs in the field of intuition are mainly concerned with theoretical debates - definitions, philosophical attitudes, historical considerations. (See, especially the works of Wild (1938), of Bunge (1 962) and of Noddings and Shore (1 984).) A notable exception is the book by Westcott (1968), which combines theoretical analyses with the author's own experimental studies. But, so far, no attempt has been made to identify systematically those findings, spread throughout the research literature, which could contribute to the deciphering of the mechanisms of intuition. Very often the relevant studies do not refer explicitly to intuition. Even when this term is used it occurs, usually, as a self-evident, common sense term.

How to Think Bigger Martin Meadows 2015-07-04 How to Get More Motivated, Set Bigger Goals, and Achieve More by Thinking Bigger Have you ever wondered what separates people who think bigger from people who set their bar low? What makes one person accept low standards and another person to constantly raise them? Why does one person strive to build an international organization affecting the lives of millions of people, while another person is content working her entire life as a clerk? (Not that there's anything wrong with being a clerk!) Why is one person

challenging herself to run marathons, train her body and get fitter, while another is happy living a sedentary, unhealthy lifestyle? What drives a person who's optimizing every single aspect of her life and what causes another person to maintain the status quo? You can say, "Well, the answer is simple enough – one person is ambitious, while the other one is not." But what exactly causes it? And most importantly – how do you become more ambitious and think bigger? Is it something you're born with and can't change, or is it something over which you have control? I found this topic so fascinating I decided to find out the answer for myself and write a book about it. This book is the result of my research about people who think big and the science of being more ambitious. Here are just some of the things you will learn from the book: - What key things you need to inspire yourself to think bigger, and more importantly, achieve your big goals. - Why you need a "why," and what kind of motivators will set you up for success (hint: attaining money or status are some of the least motivating goals possible). - The single most important thing to thinking bigger. If you don't have it in your life, you will sabotage your efforts – guaranteed. - What the chimp is and why you need to learn how to control it to get yourself motivated and work on your big goals. You can be making things hard for yourself without being aware of it. - How to cultivate the art of strategic laziness to achieve more while doing much less than other people (why work so hard if you can get better results by being lazy?). - The seven most important triggers of flow – a state of perfect focus where the magic happens. - The secret of achieving the impossible is not really such a secret, but most people tend to forget about it and get overwhelmed by their goals. I wrote this book to increase my motivation, teach myself how to think bigger and learn how to raise my standards. I hope the answer I found will help you as much as it has helped me. You can also learn how to find motivation to become the best version of you. Scroll up and buy the book now. For more free resources, sign up for my self-improvement newsletter: http://www.profoundselfimprovement.com/tba Keywords: how to think big, how to get motivated, how to get more motivation, how to achieve goals, how to set goals, thinking bigger, startup, health, teams, inspiration, big thinking, achieving goals, achieving the impossible, how to be amazing, how to be motivated, motivational guide, business motivational books, business inspirational, how to be a success, how successful people think, goal setting success, ambition, free, permafree

Exploiting Hidden Structure in Matrix Computations: Algorithms and Applications Michele Benzi 2017-01-24 Focusing on special matrices and matrices which are in some sense `near' to structured matrices, this volume covers a broad range of topics of current interest in numerical linear algebra. Exploitation of these less obvious structural properties can be of great importance in the design of efficient numerical methods, for example algorithms for matrices with low-rank block structure, matrices with decay, and structured tensor computations. Applications range from quantum chemistry to queuing theory. Structured matrices arise frequently in applications. Examples include banded and sparse matrices, Toeplitz-type matrices, and matrices with semi-separable or quasi-separable structure, as well as Hamiltonian and symplectic matrices. The associated literature is enormous, and many efficient algorithms have been developed for solving problems involving such matrices. The text arose from a C.I.M.E. course held in Cetraro (Italy) in June 2015 which aimed to present this fast growing field to young researchers, exploiting the expertise of five leading lecturers with different theoretical and application perspectives.

Our Underachieving Colleges Derek Bok 2009-02-28 Drawing on a large body of empirical evidence, former Harvard President Derek Bok examines how much progress college students actually make toward widely accepted goals of undergraduate education. His conclusions are sobering. Although most students make gains in many important respects, they improve much less than they should in such important areas as writing, critical thinking, quantitative skills, and moral reasoning. Large majorities of college seniors do not feel that they have made substantial progress in speaking a foreign language, acquiring cultural and aesthetic interests, or learning what they need to know to become active and informed citizens. Overall, despite their vastly increased resources, more powerful technology, and hundreds of new courses, colleges cannot be confident that students are learning more than they did fifty years ago. Looking further, Bok finds that many important college courses are left to the least experienced teachers and that most professors continue to teach in ways that have proven to be less effective than other available methods. In reviewing their educational programs, however, faculties typically ignore this evidence. Instead, they spend most of their time discussing what courses to require, although the lasting impact of college will almost certainly depend much more on how the courses are taught. In his final chapter, Bok describes the changes that faculties and academic leaders can make to help students accomplish more. Without ignoring the contributions that America's colleges have made, Bok delivers a powerful critique--one that educators will ignore at their peril.

LabVIEW for Engineers Ronald W. Larsen 2011 Based on the most current release of LabVIEW, LabVIEW for Engineers is designed for readers with little to no experience using LabVIEW. Part of Prentice Hall's ESource Program: ESource enables instructors to choose individual chapters from published books in the Prentice Hall ESource Series. The content available in this online book-building system covers topics in engineering problem-solving and design, graphics, and computer applications. Using this program, instructors can create a unique text for the introduction to engineering course that exactly matches their content requirements and teaching approach. www.prenhall.com/esource.

Medieval Islamic Civilization: A-K, index Josef W. Meri 2006 Publisher description

Mathematical Reviews 2006

Latent Variable Modeling Using R A. Alexander Beaujean 2014-05-09 This step-by-step guide is written for R and latent variable model (LVM) novices. Utilizing a path model approach and focusing on the lavaan package, this book is designed to help readers quickly understand LVMs and their analysis in R. The author reviews the reasoning behind the syntax selected and provides examples that demonstrate how to analyze data for a variety of LVMs. Featuring examples applicable to psychology, education, business, and other social and health sciences, minimal text is devoted to theoretical underpinnings. The material is presented without the use of matrix algebra. As a whole the book prepares readers to write about and interpret LVM results they obtain in R. Each chapter features background information, boldfaced key terms defined in the glossary, detailed interpretations of R output, descriptions of how to write the analysis of results for publication, a summary, R based practice exercises (with solutions included in the back of the book), and references and related readings. Margin notes help readers better understand LVMs and write their own R syntax. Examples using data from published work across a variety of disciplines demonstrate how to use R syntax for analyzing and interpreting results. R functions, syntax, and the corresponding results appear in gray boxes to help readers quickly locate this material. A unique index helps readers quickly locate R functions, packages, and datasets. The book and accompanying website at http://blogs.baylor.edu/rlatentvariable/ provides all of the data for the book's examples and exercises as well as R syntax so readers can replicate the analyses. The book reviews how to enter the data into R, specify the LVMs, and obtain and interpret the estimated parameter values. The book opens with the fundamentals of using R including how to download the program, use functions, and enter and manipulate data. Chapters 2 and 3 introduce and then extend path models to include latent variables. Chapter 4 shows readers how to analyze a latent variable model with data from more than one group, while Chapter 5 shows how to analyze a latent variable model with data from more than one time period. Chapter 6 demonstrates the analysis of dichotomous variables, while Chapter 7 demonstrates how to analyze LVMs with missing data. Chapter 8 focuses on sample size determination using Monte Carlo methods, which can be used with a wide range of statistical models and account for missing data. The final chapter examines hierarchical LVMs, demonstrating both higher-order and bi-factor approaches. The book concludes with three Appendices: a review of common measures of model fit including their formulae and interpretation; syntax for other R latent variable models packages; and solutions for each chapter's exercises. Intended as a supplementary text for graduate and/or advanced undergraduate courses on latent variable modeling, factor analysis, structural equation modeling, item response theory, measurement, or multivariate statistics taught in psychology, education, human development, business, economics, and social and health sciences, this book also appeals to researchers in these fields. Prerequisites include familiarity with basic statistical concepts, but knowledge of R is not assumed.

2019 IEEE High Performance Extreme Computing Conference (HPEC) IEEE Staff 2019-09-24 This conference will give researchers from academia, industry, and government working in this important area an opportunity to discuss techniques, approaches, and ongoing developments with relevance to high performance extreme computing processors, systems, storage, networks, software, and applications

India's Interaction with China, Central and West Asia Project of History of

Indian Science, Philosophy, and Culture 2002 Focus on socio-techno, medicine, and textiles interaction.