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Course in Algebra and Number Theory Edwin Weiss, 2014-05-10 First Course in Algebra and Number Theory presents the basic concepts tools and techniques of modern algebra and number theory It is designed for a full year course at the freshman or sophomore college level The text is organized into four chapters The first chapter is concerned with the set of all integers positive negative and zero It investigates properties of Z such as division algorithm Euclidean algorithm unique factorization greatest common divisor least common multiple congruence and radix representation In chapter 2 additional axioms about Z were introduced and some of their consequences are discussed The third chapter sets up terminologies about polynomials solutions or roots of polynomial equations and factorization of polynomials Finally chapter 4 studies logically simpler algebraic systems known as groups algebraic objects with a single operation. The book is intended for students in the freshman and sophomore levels in college A First Course in Computational Physics Paul DeVries, Paul L. DeVries, Javier Hasbun, 2011-01-28 Computers and computation are extremely important components of physics and should be integral parts of a physicist's education Furthermore computational physics is reshaping the way calculations are made in all areas of physics Intended for the physics and engineering students who have completed the introductory physics course A First Course in Computational Physics Second Edition covers the different types of computational problems using MATLAB with exercises developed around problems of physical interest Topics such as root finding Newton Cotes integration and ordinary differential equations are included and presented in the context of physics problems A few topics rarely seen at this level such as computerized tomography are also included Within each chapter the student is led from relatively elementary problems and simple numerical approaches through derivations of more complex and sophisticated methods often culminating in the solution to problems of significant difficulty The goal is to demonstrate how numerical methods are used to solve the problems that physicists face Read the review published in Computing in Science Engineering magazine March Bernard Flury, 2013-03-09 My goal in writing this book has been to provide teachers and students of multi variate statistics with a unified treatment of both theoretical and practical aspects of this fascinating area. The text is designed for a broad readership including advanced undergraduate students and graduate students in statistics graduate students in bi ology anthropology life sciences and other areas and postgraduate students The style of this book reflects my beliefthat the common distinction between multivariate statistical theory and multivariate methods is artificial and should be abandoned I hope that readers who are mostly interested in practical applications will find the theory accessible and interesting Similarly I hope to show to more mathematically interested students that multivariate statistical modelling is much more than applying formulas to data sets The text covers mostly parametric models but gives brief introductions to computer intensive methods such as the bootstrap and randomization tests as well The selection of material reflects my own preferences and views My principle in writing this text has been to restrict the presentation to relatively few topics but cover these in detail This should

allow the student to study an area deeply enough to feel comfortable with it and to start reading more advanced books or An Introduction to Numerical Methods and Analysis James F. Epperson, 2013-10-07 Praise for articles on the same topic the First Edition outstandingly appealing with regard to its style contents considerations of requirements of practice choice of examples and exercises Zentralblatt MATH carefully structured with many detailed worked examples The Mathematical Gazette The Second Edition of the highly regarded An Introduction to Numerical Methods and Analysis provides a fully revised guide to numerical approximation The book continues to be accessible and expertly guides readers through the many available techniques of numerical methods and analysis An Introduction to Numerical Methods and Analysis Second Edition reflects the latest trends in the field includes new material and revised exercises and offers a unique emphasis on applications. The author clearly explains how to both construct and evaluate approximations for accuracy and performance which are key skills in a variety of fields A wide range of higher level methods and solutions including new topics such as the roots of polynomials spectral collocation finite element ideas and Clenshaw Curtis quadrature are presented from an introductory perspective and the Second Edition also features Chapters and sections that begin with basic elementary material followed by gradual coverage of more advanced material Exercises ranging from simple hand computations to challenging derivations and minor proofs to programming exercises Widespread exposure and utilization of MATLAB An appendix that contains proofs of various theorems and other material The book is an ideal textbook for students in advanced undergraduate mathematics and engineering courses who are interested in gaining an understanding of numerical methods A First Course in Discrete Dynamical Systems Richard A. Holmgren, 2012-09-05 Discrete and numerical analysis dynamical systems are essentially iterated functions Given the ease with which computers can do iteration it is now possible for anyone with access to a personal computer to generate beautiful images whose roots lie in discrete dynamical systems Images of Mandelbrot and Julia sets abound in publications both mathematical and not The mathematics behind the pictures are beautiful in their own right and are the subject of this text The level of the presentation is suitable for advanced undergraduates with a year of calculus behind them Students in the author's courses using this material have come from numerous disciplines many have been majors in other disciplines who are taking mathematics courses out of general interest Concepts from calculus are reviewed as necessary Mathematica programs that illustrate the dynamics and that will aid the student in doing the exercises are included in an appendix A Web Notebook: A First Course in Using the Internet and Web Design Tony Hawken, 2010-03-30 This is an introductory course book It teaches people how to use the Internet and to be able to create web pages using HTML It is intended for students studying computing on an Access to Higher Education programme though it could be used to benefit many other students as well The book takes very little for granted and has numerous examples with brief explanatory notes There are also example assignments and solutions **University of Michigan Official Publication** ,1963 Advances in Computers ,1980-02-01 Advances in Computers **Technical**

Books in Print ,1974 Optimal Control Leslie M. Hocking, 1991 Systems that evolve with time occur frequently in nature and modelling the behaviour of such systems provides an important application of mathematics. These systems can be completely deterministic but it may be possible too to control their behaviour by intervention through controls The theory of optimal control is concerned with determining such controls which at minimum cost either direct the system along a given trajectory or enable it to reach a given point in its state space This textbook is a straightforward introduction to the theory of optimal control with an emphasis on presenting many different applications Professor Hocking has taken pains to ensure that the theory is developed to display the main themes of the arguments but without using sophisticated mathematical tools Problems in this setting can arise across a wide range of subjects and there are illustrative examples of systems from as diverse fields as dynamics economics population control and medicine Throughout there are many worked examples and numerous exercises with solutions are provided **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1972 Symbolic and Numerical Scientific Computation Franz Winkler, 2003-06-30 This book constitutes the thoroughly refereed post proceedings of the Second International Conference on Symbolic and Numerical Scientific Computation SNSC 2001 held in Hagenberg Austria in September 2001 The 19 revised full papers presented were carefully selected during two rounds of reviewing and improvement The papers are organized in topical sections on symbolics and numerics of differential equations symbolics and numerics in algebra and geometry and applications in physics John Atanasoff Blagovest Sendov, 2003 **International Biographical Dictionary of Computer** and engineering Pioneers John A. N. Lee, J. A. N. Lee, 1995 First Published in 1996 Routledge is an imprint of Taylor Francis an informa Computational Methods for Fluid Dynamics Joel H. Ferziger, Milovan Peric, 2012-12-06 In its 3rd revised company and extended edition the book offers an overview of the techniques used to solve problems in fluid mechanics on computers and describes in detail those most often used in practice Included are advanced methods in computational fluid dynamics like direct and large eddy simulation of turbulence multigrid methods parallel computing moving grids structured block structured and unstructured boundary fitted grids free surface flows The 3rd edition contains a new section dealing with grid quality and an extended description of discretization methods The book shows common roots and basic principles for many different methods The book also contains a great deal of practical advice for code developers and users it is designed to be equally useful to beginners and experts The issues of numerical accuracy estimation and reduction of numerical errors are dealt with in detail with many examples

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