



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ringkasan dari banyak topik matematika untuk siswa yang merencanakan karir di bidang teknik atau sains kekuatan kunci dari teks ini adalah penekanan o neil pada persamaan diferensial sebagai model matematika membahas konstruksi dan perangkat masing masing edisi ini komprehensif namun fleksibel untuk memenuhi kebutuhan unik dari berbagai penawaran kursus mulai dari persamaan diferensial biasa hingga kalkulus vektor banyak proyek baru yang disumbangkan oleh ahli matematikawan telah ditambahkan

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modern mathematical methods for scientists and engineers is a modern introduction to basic topics in mathematics at the undergraduate level with emphasis on explanations and applications to real life problems there is also an application section at the end of each chapter with topics drawn from a variety of areas including neural networks fluid dynamics and the behavior of put and call options in financial markets the book presents several modern important and computationally efficient topics including feedforward neural networks wavelets generalized functions stochastic optimization methods and numerical methods a unique and novel feature of the book is the introduction of a recently developed method for solving partial differential equations pdes called the unified transform pdes are the mathematical cornerstone for describing an astonishingly wide range of phenomena from quantum mechanics to ocean waves to the diffusion of heat in matter and the behavior of financial markets despite the efforts of many famous mathematicians physicists and engineers the solution of partial differential equations remains a challenge the unified transform greatly facilitates this task for example two and a half centuries after jean d alembert formulated the wave equation and presented a solution for solving a simple problem for this equation the unified transform derives in a simple manner a generalization of the d alembert solution valid for general boundary value problems moreover two centuries after joseph fourier introduced the classical tool of the fourier series for solving the heat equation the unified transform constructs a new solution to this ubiquitous pde with important analytical and numerical advantages in comparison to the classical solutions the authors present the unified transform pedagogically building all the necessary background including functions of real and of complex variables and the fourier transform illustrating the method with numerous examples broad in scope but pedagogical in style and content the book is an introduction to powerful mathematical concepts and modern tools for students in science and engineering

this engineering mathematics textbook is rich with examples applications and exercises and emphasises applying matrices

drawing on the author s 25 years of teaching experience signals and systems a matlab integrated approach presents a novel and comprehensive approach to understanding signals and systems theory many texts use matlab as a computational tool but alkin s text employs matlab both computationally and pedagogically to provide interactive visual rein

the research on gaseous electronics reaches back more than 100 years with the growing importance of gas lasers in so many research and industrial applications as well as power systems generating transmitting and distributing huge blocks of electrical power the body of literature on cross sections drift and diffusion and ionization phenomena c

book is intended for students in engineering science and applied math for a variety of courses and is constructed to provide flexibility for instructors for use in this manner

the intent of this book is to introduce readers to algebra from a point of view that stresses examples and classification whenever possible the main theorems are treated as tools that may be used to construct and analyze specific types of groups rings fields modules etc sample constructions and classifications are given in both text and exercises

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