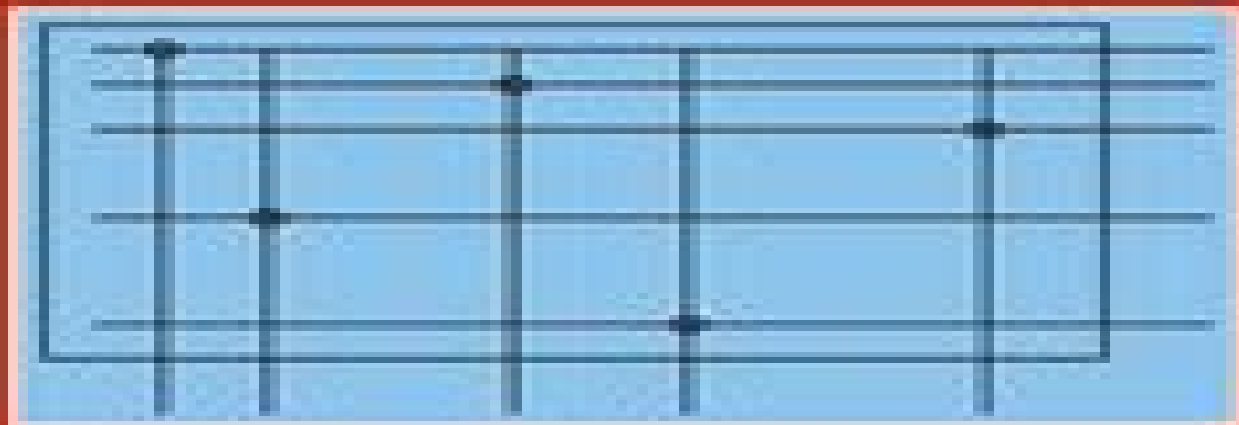


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Methods in Combinatorial Optimization Lap Chi Lau, R. Ravi, Mohit Singh, 2011-04-18 With the advent of approximation algorithms for NP hard combinatorial optimization problems several techniques from exact optimization such as the primal dual method have proven their staying power and versatility This book describes a simple and powerful method that is iterative in essence and similarly useful in a variety of settings for exact and approximate optimization The authors highlight the commonality and uses of this method to prove a variety of classical polyhedral results on matchings trees matroids and flows The presentation style is elementary enough to be accessible to anyone with exposure to basic linear algebra and graph theory making the book suitable for introductory courses in combinatorial optimization at the upper undergraduate and beginning graduate levels Discussions of advanced applications illustrate their potential for future application in research in approximation algorithms Integer Programming and Combinatorial Optimization Jon Lee, Jens Vygen, 2014-05-17 This book constitutes the refereed proceedings of the 17th International Conference on Integer Programming and Combinatorial Optimization IPCO 2014 held in Bonn Germany in June 2014 The 34 full papers presented were carefully reviewed and selected from 143 submissions The conference is a forum for researchers and practitioners working on various aspects of integer programming and combinatorial optimization The aim is to present recent developments in theory computation and applications in these areas The scope of IPCO is viewed in a broad sense to include algorithmic and structural results in integer programming and combinatorial optimization as well as revealing computational studies and novel applications of discrete optimization to practical problems

Nonlinear Dispersive Waves Mark J. Ablowitz, 2011-09-08 The field of nonlinear dispersive waves has developed enormously since the work of Stokes Boussinesq and Korteweg de Vries KdV in the nineteenth century In the 1960s researchers developed effective asymptotic methods for deriving nonlinear wave equations such as the KdV equation governing a broad class of physical phenomena that admit special solutions including those commonly known as solitons This book describes the underlying approximation techniques and methods for finding solutions to these and other equations The concepts and methods covered include wave dispersion asymptotic analysis perturbation theory the method of multiple scales deep and shallow water waves nonlinear optics including fiber optic communications mode locked lasers and dispersion managed wave phenomena Most chapters feature exercise sets making the book suitable for advanced courses or for self directed learning Graduate students and researchers will find this an excellent entry to a thriving area at the intersection of applied mathematics engineering and physical science **An Introduction to**

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Introduction to Magnetohydrodynamics P. A. Davidson, 2017 Comprehensive textbook prioritising physical ideas over mathematical detail New material includes fusion plasma magnetohydrodynamics **Tractability** Lucas Bordeaux, Youssef Hamadi, Pushmeet Kohli, 2014-02-06 Classical computer science textbooks tell us that some problems are hard Yet many areas from machine learning and computer vision to theorem proving and software verification have defined their own set of tools for effectively solving complex problems Tractability provides an overview of these different techniques and of the fundamental concepts and properties used to tame intractability This book will help you understand what to do when facing a hard computational problem Can the problem be modelled by convex or submodular functions Will the instances arising in practice be of low treewidth or exhibit another specific graph structure that makes them easy Is it acceptable to use scalable but approximate algorithms A wide range of approaches is presented through self contained chapters written by authoritative researchers on each topic As a reference on a core problem in computer science this book will appeal to theoreticians and practitioners alike

A Physical Introduction to Suspension Dynamics Élisabeth Guazzelli, Jeffrey F. Morris, 2011-11-24 Understanding the behaviour of particles suspended in a fluid has many important applications across a range of fields including engineering and geophysics Comprising two main parts this book begins with the well developed theory of particles in viscous fluids i e microhydrodynamics particularly for single and pair body dynamics Part II considers many body dynamics covering shear flows and sedimentation bulk flow properties and collective phenomena An interlude between the two parts provides the basic statistical techniques needed to employ the results of the first microscopic in the second macroscopic The authors introduce theoretical mathematical concepts through concrete examples making the material accessible to non mathematicians They also include some of the many open questions in the field to encourage further study Consequently this is an ideal introduction for students and researchers from other disciplines who are approaching suspension dynamics for the first time

Numerical Linear Algebra Holger Wendland, 2018 This self contained introduction to numerical linear algebra provides a comprehensive yet concise overview of the subject It includes standard material such as direct methods for solving linear systems and least squares problems error stability and conditioning basic iterative methods and the calculation of eigenvalues Later chapters cover more advanced material such as Krylov subspace methods multigrid methods domain decomposition methods multipole expansions hierarchical matrices and

compressed sensing The book provides rigorous mathematical proofs throughout and gives algorithms in general purpose language independent form Requiring only a solid knowledge in linear algebra and basic analysis this book will be useful for applied mathematicians engineers computer scientists and all those interested in efficiently solving linear problems

Discrete Systems and Integrability J. Hietarinta, N. Joshi, F. W. Nijhoff, 2016-09 A first introduction to the theory of discrete integrable systems at a level suitable for students and non experts Flow, Deformation and Fracture Grigory Isaakovich Barenblatt, 2014-06-05 Over forty years of teaching experience are distilled into this text The guiding principle is the wide use of the concept of intermediate asymptotics which enables the natural introduction of the modeling of real bodies by continua Beginning with a detailed explanation of the continuum approximation for the mathematical modeling of the motion and equilibrium of real bodies the author continues with a general survey of the necessary methods and tools for analyzing models Next specific idealized approximations are presented including ideal incompressible fluids elastic bodies and Newtonian viscous fluids The author not only presents general concepts but also devotes chapters to examining significant problems including turbulence wave propagation defects and cracks fatigue and fracture Each of these applications reveals essential information about the particular approximation The author's tried and tested approach reveals insights that will be valued by every teacher and student of mechanics *Singularities: Formation, Structure and Propagation* J. Eggers, M. A. Fontelos, 2015-09-10 This book explores a wide range of singular phenomena providing mathematical tools for understanding them and highlighting their common features **Mathematical Reviews** ,2004

Computational Optimization and Applications in Engineering and Industry Xin-She Yang, Slawomir Koziel, 2011-06-19 Contemporary design in engineering and industry relies heavily on computer simulation and efficient algorithms to reduce the cost and to maximize the performance and sustainability as well as profits and energy efficiency Solving an optimization problem correctly and efficiently requires not only the right choice of optimization algorithms and simulation methods but also the proper implementation and insight into the problem of interest This book consists of ten self contained detailed case studies of real world optimization problems selected from a wide range of applications and contributed from worldwide experts who are working in these exciting areas Optimization topics and applications include gas and water supply networks oil field production optimization microwave engineering aerodynamic shape design environmental emergence modelling structural engineering waveform design for radar and communication systems parameter estimation in laser experiment and measurement engineering materials and network scheduling These case studies have been solved using a wide range of optimization techniques including particle swarm optimization genetic algorithms artificial bee colony harmony search adaptive error control derivative free pattern search surrogate based optimization variable fidelity modelling as well as various other methods and approaches This book is a practical guide to help graduates and researchers to carry out optimization for real world applications More advanced readers will also find it a helpful reference and aide memoire

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Boolean Functions Yves Crama,Peter L. Hammer,2011-05-16 Written by prominent experts in the field this monograph provides the first comprehensive unified presentation of the structural algorithmic and applied aspects of the theory of Boolean functions The book focuses on algebraic representations of Boolean functions especially disjunctive and conjunctive normal form representations This framework looks at the fundamental elements of the theory Boolean equations and satisfiability problems prime implicants and associated short representations dualization an in depth study of special classes of Boolean functions quadratic Horn shellable regular threshold read once functions and their characterization by functional equations and two fruitful generalizations of the concept of Boolean functions partially defined functions and pseudo Boolean functions Several topics are presented here in book form for the first time Because of the depth and breadth and its emphasis on algorithms and applications this monograph will have special appeal for researchers and graduate students in discrete mathematics operations research computer science engineering and economics

New Technical Books New York Public Library,1979 **Subject Guide to Books in Print** ,1997 *American Book Publishing Record* ,2001

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