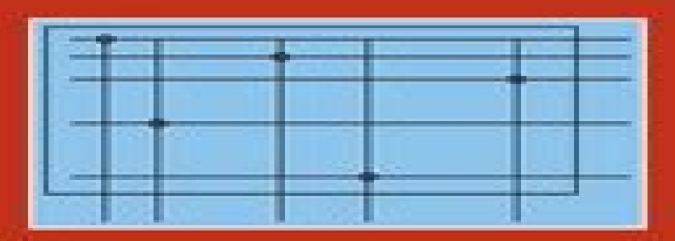
IN APPLIED MATHEMATICS

Iterative Methods in Combinatorial Optimization



R. RAVI

Jon Lee, Jens Vygen

Iterative Methods in Combinatorial Optimization Lap Chi Lau, Ramamoorthi Ravi, Mohit Singh, 2014-05-14 A simple powerful method that is iterative and useful in a variety of settings for exact and approximate optimization 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 **Integer Programming and Combinatorial Optimization** Jon Lee, Jens Vygen, 2014-05-17 approximation algorithms 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

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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

<u>Singularities: Formation, Structure and Propagation</u> 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

Convex Optimization Stephen P. Boyd, Lieven Vandenberghe, 2004-03-08 Convex optimization problems arise frequently in many different fields This book provides a comprehensive introduction to the subject and shows in detail how such problems can be solved numerically with great efficiency The book begins with the basic elements of convex sets and functions and then describes various classes of convex optimization problems Duality and approximation techniques are then covered as are statistical estimation techniques Various geometrical problems are then presented and there is detailed

discussion of unconstrained and constrained minimization problems and interior point methods The focus of the book is on recognizing convex optimization problems and then finding the most appropriate technique for solving them It contains many worked examples and homework exercises and will appeal to students researchers and practitioners in fields such as engineering computer science mathematics statistics finance and economics New Technical Books New York Public Library, 1979 Subject Guide to Books in Print ,1997 American Book Publishing Record ,2001 **Bulletin** Institute of Mathematics and Its Applications, 1987 **Iterative Methods for Optimization** C. T. Kelley, 1999-01-01 This book presents a carefully selected group of methods for unconstrained and bound constrained optimization problems and analyzes them in depth both theoretically and algorithmically It focuses on clarity in algorithmic description and analysis rather than generality and while it provides pointers to the literature for the most general theoretical results and robust software the author thinks it is more important that readers have a complete understanding of special cases that convey essential ideas A companion to Kelley's book Iterative Methods for Linear and Nonlinear Equations SIAM 1995 this book contains many exercises and examples and can be used as a text a tutorial for self study or a reference Iterative Methods for Optimization does more than cover traditional gradient based optimization it is the first book to treat sampling methods including the Hooke Jeeves implicit filtering MDS and Nelder Mead schemes in a unified way and also the first book to make connections between sampling methods and the traditional gradient methods Each of the main algorithms in the text is described in pseudocode and a collection of MATLAB codes is available Thus readers can experiment with the algorithms in an easy way as well as implement them in other languages

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