

Wiley-Interscience Series in Discrete Mathematics and Optimization

MAXIMA AND MINIMA WITH APPLICATIONS

PRACTICAL OPTIMIZATION AND DUALITY



WILFRED KAPLAN

Maxima And Minima With Applications Practical Optimization And Duality

Russell Merris



Maxima And Minima With Applications Practical Optimization And Duality:

Maxima and Minima with Applications Wilfred Kaplan, 2011-10-14 This new work by Wilfred Kaplan the distinguished author of influential mathematics and engineering texts is destined to become a classic Timely concise and content driven it provides an intermediate level treatment of maxima minima and optimization Assuming only a background in calculus and some linear algebra Professor Kaplan presents topics in order of difficulty In four short chapters he describes basic concepts and geometric aspects of maxima and minima progresses to problems with side conditions introduces optimization and programming and concludes with an in depth discussion of research topics involving the duality theorems of Fenchel and Rockafellar Throughout the text the subject of convexity is gradually developed from its theoretical underpinnings to problems and finally to its role in applications Other features include A strong emphasis on practical applications of maxima and minima An impressive array of supporting topics such as numerical analysis An ample number of examples and problems More than 60 illustrations highlighting the text Algorithms to reinforce concepts An appendix reviewing the prerequisite linear algebra *Maxima and Minima with Applications* is an ideal text for upper undergraduate and graduate students taking courses in operations research management general engineering and applied mathematics It can also be used to supplement courses on linear and nonlinear optimization This volume s broad scope makes it an excellent reference for professionals wishing to learn more about cutting edge topics in optimization and mathematical programming

OPTIMIZATION AND OPERATIONS RESEARCH - Volume I Ulrich Derigs, 2009-02-09 Optimization and Operations Research is a component of Encyclopedia of Mathematical Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Optimization and Operations Research is organized into six different topics which represent the main scientific areas of the theme 1 Fundamentals of Operations Research 2 Advanced Deterministic Operations Research 3 Optimization in Infinite Dimensions 4 Game Theory 5 Stochastic Operations Research 6 Decision Analysis which are then expanded into multiple subtopics each as a chapter These four volumes are aimed at the following five major target audiences University and College students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs

Logic-Based Methods for Optimization John Hooker, 2011-09-28 A pioneering look at the fundamental role of logic in optimization and constraint satisfaction While recent efforts to combine optimization and constraint satisfaction have received considerable attention little has been said about using logic in optimization as the key to unifying the two fields Logic Based Methods for Optimization develops for the first time a comprehensive conceptual framework for integrating optimization and constraint satisfaction then goes a step further and shows how extending logical inference to optimization allows for more powerful as well as flexible modeling and solution techniques Designed to be easily accessible to industry professionals and academics in both operations research and artificial intelligence the book provides a wealth of examples as well as elegant techniques and modeling frameworks

ready for implementation Timely original and thought provoking Logic Based Methods for Optimization Demonstrates the advantages of combining the techniques in problem solving Offers tutorials in constraint satisfaction constraint programming and logical inference Clearly explains such concepts as relaxation cutting planes nonserial dynamic programming and Bender's decomposition Reviews the necessary technologies for software developers seeking to combine the two techniques Features extensive references to important computational studies And much more

An Introduction to Optimization Edwin K. P. Chong, Stanislaw H. Żak, 2013-01-14 Praise for the Third Edition guides and leads the reader through the learning path examples are stated very clearly and the results are presented with attention to detail MAA Reviews Fully updated to reflect new developments in the field the Fourth Edition of Introduction to Optimization fills the need for accessible treatment of optimization theory and methods with an emphasis on engineering design Basic definitions and notations are provided in addition to the related fundamental background for linear algebra geometry and calculus This new edition explores the essential topics of unconstrained optimization problems linear programming problems and nonlinear constrained optimization The authors also present an optimization perspective on global search methods and include discussions on genetic algorithms particle swarm optimization and the simulated annealing algorithm Featuring an elementary introduction to artificial neural networks convex optimization and multi objective optimization the Fourth Edition also offers A new chapter on integer programming Expanded coverage of one dimensional methods Updated and expanded sections on linear matrix inequalities Numerous new exercises at the end of each chapter MATLAB exercises and drill problems to reinforce the discussed theory and algorithms Numerous diagrams and figures that complement the written presentation of key concepts MATLAB M files for implementation of the discussed theory and algorithms available via the book's website Introduction to Optimization Fourth Edition is an ideal textbook for courses on optimization theory and methods In addition the book is a useful reference for professionals in mathematics operations research electrical engineering economics statistics and business

Optimization Methods for Logical Inference Vijay Chandru, John Hooker, 2011-09-26 Merging logic and mathematics in deductive inference an innovative cutting edge approach Optimization methods for logical inference Absolutely say Vijay Chandru and John Hooker two major contributors to this rapidly expanding field And even though solving logical inference problems with optimization methods may seem a bit like eating sauerkraut with chopsticks it is the mathematical structure of a problem that determines whether an optimization model can help solve it not the context in which the problem occurs Presenting powerful proven optimization techniques for logic inference problems Chandru and Hooker show how optimization models can be used not only to solve problems in artificial intelligence and mathematical programming but also have tremendous application in complex systems in general They survey most of the recent research from the past decade in logic optimization interfaces incorporate some of their own results and emphasize the types of logic most receptive to optimization methods propositional logic first order predicate logic probabilistic and related logics

that combine evidence such as Dempster Shafer theory rule systems with confidence factors and constraint logic programming systems Requiring no background in logic and clearly explaining all topics from the ground up Optimization Methods for Logical Inference is an invaluable guide for scientists and students in diverse fields including operations research computer science artificial intelligence decision support systems and engineering *The Probabilistic Method* Noga Alon, Joel H. Spencer, 2015-10-28 Praise for the Third Edition Researchers of any kind of extremal combinatorics or theoretical computer science will welcome the new edition of this book MAA Reviews Maintaining a standard of excellence that establishes The Probabilistic Method as the leading reference on probabilistic methods in combinatorics the Fourth Edition continues to feature a clear writing style illustrative examples and illuminating exercises The new edition includes numerous updates to reflect the most recent developments and advances in discrete mathematics and the connections to other areas in mathematics theoretical computer science and statistical physics Emphasizing the methodology and techniques that enable problem solving The Probabilistic Method Fourth Edition begins with a description of tools applied to probabilistic arguments including basic techniques that use expectation and variance as well as the more advanced applications of martingales and correlation inequalities The authors explore where probabilistic techniques have been applied successfully and also examine topical coverage such as discrepancy and random graphs circuit complexity computational geometry and derandomization of randomized algorithms Written by two well known authorities in the field the Fourth Edition features Additional exercises throughout with hints and solutions to select problems in an appendix to help readers obtain a deeper understanding of the best methods and techniques New coverage on topics such as the Local Lemma Six Standard Deviations result in Discrepancy Theory Property B and graph limits Updated sections to reflect major developments on the newest topics discussions of the hypergraph container method and many new references and improved results The Probabilistic Method Fourth Edition is an ideal textbook for upper undergraduate and graduate level students majoring in mathematics computer science operations research and statistics The Fourth Edition is also an excellent reference for researchers and combinatorists who use probabilistic methods discrete mathematics and number theory Noga Alon PhD is Baumritter Professor of Mathematics and Computer Science at Tel Aviv University He is a member of the Israel National Academy of Sciences and Academia Europaea A coeditor of the journal Random Structures and Algorithms Dr Alon is the recipient of the Polya Prize The G del Prize The Israel Prize and the EMET Prize Joel H Spencer PhD is Professor of Mathematics and Computer Science at the Courant Institute of New York University He is the cofounder and coeditor of the journal Random Structures and Algorithms and is a Sloane Foundation Fellow Dr Spencer has written more than 200 published articles and is the coauthor of Ramsey Theory Second Edition also published by Wiley **Graph Edge Coloring** Michael Stiebitz, Diego Scheide, Bjarne Toft, Lene M. Favrholdt, 2012-02-27 Features recent advances and new applications in graph edgecoloring Reviewing recent advances in the Edge Coloring Problem GraphEdge Coloring Vizing's Theorem and

Goldberg's Conjecture provides an overview of the current state of the science explaining the interconnections among the results obtained from important graph theory studies. The authors introduce many new improved proofs of known results to identify and point to possible solutions for open problems in edge coloring. The book begins with an introduction to graph theory and the concept of edge coloring. Subsequent chapters explore important topics such as Use of Tashkinov trees to obtain an asymptotic positive solution to Goldberg's conjecture. Application of Vizing fans to obtain both known and new results. Kierstead paths as an alternative to Vizing fans. Classification problem of simple graphs. Generalized edge coloring in which a color may appear more than once at a vertex. This book also features first time English translations of two groundbreaking papers written by Vadim Vizing on an estimate of the chromatic class of a p graph and the critical graphs within a given chromatic class. Written by leading experts who have reinvigorated research in the field. Graph Edge Coloring is an excellent book for mathematics optimization and computer science courses at the graduate level. The book also serves as a valuable reference for researchers interested in discrete mathematics, graph theory, operations research, theoretical computer science, and combinatorial optimization.

Sorting Hosam M. Mahmoud, 2011-10-14 A cutting edge look at the emerging distributional theory of sorting. Research on distributions associated with sorting algorithms has grown dramatically over the last few decades, spawning many exact and limiting distributions of complexity measures for many sorting algorithms. Yet much of this information has been scattered in disparate and highly specialized sources throughout the literature. In *Sorting: A Distribution Theory*, leading authority Hosam Mahmoud compiles, consolidates, and clarifies the large volume of available research, providing a much needed comprehensive treatment of the entire emerging distributional theory of sorting. Mahmoud carefully constructs a logical framework for the analysis of all standard sorting algorithms, focusing on the development of the probability distributions associated with the algorithms, as well as other issues in probability theory such as measures of concentration and rates of convergence. With an emphasis on narrative rather than technical explanations, this exceptionally well-written book makes new results easily accessible to a broad spectrum of readers, including computer professionals, scientists, mathematicians, and engineers. *Sorting: A Distribution Theory* contains introductory material on complete and partial sorting. Explains insertion sort, quick sort, and merge sort among other methods. Offers verbal descriptions of the mechanics of the algorithms, as well as the necessary code. Illustrates the distribution theory of sorting using a broad array of both classical and modern techniques. Features a variety of end-of-chapter exercises.

Theory of Computational Complexity Ding-Zhu Du, Ker-I Ko, 2014-06-30 Praise for the First Edition: complete up-to-date coverage of computational complexity theory; the book promises to become the standard reference on computational complexity.

Zentralblatt MATH: A thorough revision based on advances in the field of computational complexity and readers' feedback. The Second Edition of *Theory of Computational Complexity* presents updates to the principles and applications essential to understanding modern computational complexity theory. The new edition continues to serve as a comprehensive resource on

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Theory of Computational Complexity Second Edition is an excellent textbook for courses on computational theory and complexity at the graduate level The book is also a useful reference for practitioners in the fields of computer science engineering and mathematics who utilize state of the art software and computational methods to conduct research

Random Graphs
Svante Janson,Tomasz Luczak,Andrzej Rucinski,2011-09-30 A unified modern treatment of the theory of random graphs including recent results and techniques Since its inception in the 1960s the theory of random graphs has evolved into a dynamic branch of discrete mathematics Yet despite the lively activity and important applications the last comprehensive volume on the subject is Bollobas s well known 1985 book Poised to stimulate research for years to come this new work covers developments of the last decade providing a much needed modern overview of this fast growing area of combinatorics Written by three highly respected members of the discrete mathematics community the book incorporates many disparate results from across the literature including results obtained by the authors and some completely new results Current tools and techniques are also thoroughly emphasized Clear easily accessible presentations make *Random Graphs* an ideal introduction for newcomers to the field and an excellent reference for scientists interested in discrete mathematics and theoretical computer science Special features include A focus on the fundamental theory as well as basic models of random graphs A detailed description of the phase transition phenomenon Easy to apply exponential inequalities for large deviation bounds An extensive study of the problem of containing small subgraphs Results by Bollobas and others on the chromatic number of random graphs The result by Robinson and Wormald on the existence of Hamilton cycles in random regular graphs A gentle introduction to the zero one laws Ample exercises figures and bibliographic references

Average Case Analysis of Algorithms on Sequences Wojciech Szpankowski,2011-10-14 A timely book on a topic that has witnessed a surge of interest over the last decade owing in part to several novel applications most notably in data compression and computational molecular biology It describes methods employed in average case analysis of algorithms combining both analytical and probabilistic tools in a single volume Tools are illustrated through problems on words with applications to molecular biology data compression security and pattern matching Includes chapters on algorithms and data structures on words probabilistic and analytical models inclusion exclusion principles first and second moment methods subadditive

ergodic theorem and large deviations elements of information theory generating functions complex asymptotic methods Mellin transform and its applications and analytic poissonization and depoissonization Written by an established researcher with a strong international reputation in the field Graph Theory Russell Merris, 2011-09-20 A lively invitation to the flavor elegance and power of graph theory This mathematically rigorous introduction is tempered and enlivened by numerous illustrations revealing examples seductive applications and historical references An award winning teacher Russ Merris has crafted a book designed to attract and engage through its spirited exposition a rich assortment of well chosen exercises and a selection of topics that emphasizes the kinds of things that can be manipulated counted and pictured Intended neither to be a comprehensive overview nor an encyclopedic reference this focused treatment goes deeply enough into a sufficiently wide variety of topics to illustrate the flavor elegance and power of graph theory Another unique feature of the book is its user friendly modular format Following a basic foundation in Chapters 1 3 the remainder of the book is organized into four strands that can be explored independently of each other These strands center respectively around matching theory planar graphs and hamiltonian cycles topics involving chordal graphs and oriented graphs that naturally emerge from recent developments in the theory of graphic sequences and an edge coloring strand that embraces both Ramsey theory and a self contained introduction to Plya's enumeration of nonisomorphic graphs In the edge coloring strand the reader is presumed to be familiar with the disjoint cycle factorization of a permutation Otherwise all prerequisites for the book can be found in a standard sophomore course in linear algebra The independence of strands also makes Graph Theory an excellent resource for mathematicians who require access to specific topics without wanting to read an entire book on the subject

Introduction to Combinatorics Martin J. Erickson, 2013-06-13 Praise for the First Edition This excellent text should prove a useful accoutrement for any developing mathematics program it's short it's sweet it's beautifully written The Mathematical Intelligencer Erickson has prepared an exemplary work strongly recommended for inclusion in undergraduate level library collections Choice Featuring a modern approach Introduction to Combinatorics Second Edition illustrates the applicability of combinatorial methods and discusses topics that are not typically addressed in literature such as Alcuin's sequence Rook paths and Leech's lattice The book also presents fundamental results discusses interconnection and problem solving techniques and collects and disseminates open problems that raise questions and observations Many important combinatorial methods are revisited and repeated several times throughout the book in exercises examples theorems and proofs alike allowing readers to build confidence and reinforce their understanding of complex material In addition the author successfully guides readers step by step through three major achievements of combinatorics Van der Waerden's theorem on arithmetic progressions Plya's graph enumeration formula and Leech's 24 dimensional lattice Along with updated tables and references that reflect recent advances in various areas such as error correcting codes and combinatorial designs the Second Edition also features Many new exercises to help readers understand and apply combinatorial techniques and ideas A deeper

investigative study of combinatorics through exercises requiring the use of computer programs Over fifty new examples ranging in level from routine to advanced that illustrate important combinatorial concepts Basic principles and theories in combinatorics as well as new and innovative results in the field Introduction to Combinatorics Second Edition is an ideal textbook for a one or two semester sequence in combinatorics graph theory and discrete mathematics at the upper undergraduate level The book is also an excellent reference for anyone interested in the various applications of elementary combinatorics

Cryptography, Information Theory, and Error-Correction Aiden A. Bruen, Mario A.

Forcinito, 2011-09-28 Discover the first unified treatment of today's most essential information technologies Compressing Encrypting and Encoding With identity theft cybercrime and digital file sharing proliferating in today's wired world providing safe and accurate information transfers has become a paramount concern The issues and problems raised in this endeavor are encompassed within three disciplines cryptography information theory and error correction As technology continues to develop these fields have converged at a practical level increasing the need for a unified treatment of these three cornerstones of the information age Stressing the interconnections of the disciplines Cryptography Information Theory and Error Correction offers a complete yet accessible account of the technologies shaping the 21st century This book contains the most up to date detailed and balanced treatment available on these subjects The authors draw on their experience both in the classroom and in industry giving the book's material and presentation a unique real world orientation With its reader friendly style and interdisciplinary emphasis Cryptography Information Theory and Error Correction serves as both an admirable teaching text and a tool for self learning The chapter structure allows for anyone with a high school mathematics education to gain a strong conceptual understanding and provides higher level students with more mathematically advanced topics The authors clearly map out paths through the book for readers of all levels to maximize their learning This book is suitable for courses in cryptography information theory or error correction as well as courses discussing all three areas Provides over 300 example problems with solutions Presents new and exciting algorithms adopted by industry Discusses potential applications in cell biology Details a new characterization of perfect secrecy Features in depth coverage of linear feedback shift registers LFSR a staple of modern computing Follows a layered approach to facilitate discussion with summaries followed by more detailed explanations Provides a new perspective on the RSA algorithm Cryptography Information Theory and Error Correction is an excellent in depth text for both graduate and undergraduate students of mathematics computer science and engineering It is also an authoritative overview for IT professionals statisticians mathematicians computer scientists electrical engineers entrepreneurs and the generally curious

Integer Programming Laurence A. Wolsey, 1998-09-23 A practical accessible guide to optimization problems with discrete or integer variables Integer Programming stands out from other textbooks by explaining in clear and simple terms how to construct custom made algorithms or use existing commercial software to obtain optimal or near optimal solutions for a variety of real world

problems such as airline timetables production line schedules or electricity production on a regional or national scale Incorporating recent developments that have made it possible to solve difficult optimization problems with greater accuracy author Laurence A Wolsey presents a number of state of the art topics not covered in any other textbook These include improved modeling cutting plane theory and algorithms heuristic methods and branch and cut and integer programming decomposition algorithms This self contained text Distinguishes between good and bad formulations in integer programming problems Applies lessons learned from easy integer programs to more difficult problems Demonstrates with applications theoretical and practical aspects of problem solving Includes useful notes and end of chapter exercises Offers tremendous flexibility for tailoring material to different needs Integer Programming is an ideal text for courses in integer mathematical programming whether in operations research mathematics engineering or computer science departments It is also a valuable reference for industrial users of integer programming and researchers who would like to keep up with advances in the field

Approximation and Optimization of Discrete and Differential Inclusions Elimhan N Mahmudov,2011-08-25 Optimal control theory has numerous applications in both science and engineering This book presents basic concepts and principles of mathematical programming in terms of set valued analysis and develops a comprehensive optimality theory of problems described by ordinary and partial differential inclusions In addition to including well recognized results of variational analysis and optimization the book includes a number of new and important ones Includes practical examples **Combinatorics**

Russell Merris,2003-09-10 A mathematical gem freshly cleaned and polished This book is intended to be used as the text for a first course in combinatorics the text has been shaped by two goals namely to make complex mathematics accessible to students with a wide range of abilities interests and motivations and to create a pedagogical tool useful to the broad spectrum of instructors who bring a variety of perspectives and expectations to such a course Features retained from the first edition Lively and engaging writing style Timely and appropriate examples Numerous well chosen exercises Flexible modular format Optional sections and appendices Highlights of Second Edition enhancements Smoothed and polished exposition with a sharpened focus on key ideas Expanded discussion of linear codes New optional section on algorithms Greatly expanded hints and answers section Many new exercises and examples **Mathematical Macroevolution in**

Diatom Research Janice L. Pappas,2023-08-09 MATHEMATICAL MACROEVOLUTION IN DIATOM RESEARCH Buy this book to learn how to use mathematics in macroevolution research and apply mathematics to study complex biological problems This book contains recent research in mathematical and analytical studies on diatoms These studies reflect the complex and intricate nature of the problems being analyzed and the need to use mathematics as an aid in finding solutions Diatoms are important components of marine food webs the silica and carbon cycles primary productivity and carbon sequestration Their uniqueness as glass encased unicells and their presence throughout geologic history exemplifies the need to better understand such organisms Explicating the role of diatoms in the biological world is no more urgent than their

role as environmental and climate indicators and as such is aided by the mathematical studies in this book The volume contains twelve original research papers as chapters Macroevolutionary science topics covered are morphological analysis morphospace analysis adaptation food web dynamics origination extinction and diversity biogeography life cycle dynamics complexity symmetry and evolvability Mathematics used in the chapters include stochastic and delay differential and partial differential equations differential geometry probability theory ergodic theory group theory knot theory statistical distributions chaos theory and combinatorics Applied sciences used in the chapters include networks machine learning robotics computer vision image processing pattern recognition and dynamical systems The volume covers a diverse range of mathematical treatments of topics in diatom research Audience Diatom researchers mathematical biologists evolutionary and macroevolutionary biologists paleontologists paleobiologists theoretical biologists as well as researchers in applied mathematics algorithm sciences complex systems science computational sciences informatics computer vision and image processing sciences nanoscience the biofuels industry and applied engineering

New Foundations for Information Theory David Ellerman, 2021-10-30 This monograph offers a new foundation for information theory that is based on the notion of information as distinctions being directly measured by logical entropy and on the re quantification as Shannon entropy which is the fundamental concept for the theory of coding and communications Information is based on distinctions differences distinguishability and diversity Information sets are defined that express the distinctions made by a partition e g the inverse image of a random variable so they represent the pre probability notion of information Then logical entropy is a probability measure on the information sets the probability that on two independent trials a distinction or dit of the partition will be obtained The formula for logical entropy is a new derivation of an old formula that goes back to the early twentieth century and has been re derived many times in different contexts As a probability measure all the compound notions of joint conditional and mutual logical entropy are immediate The Shannon entropy which is not defined as a measure in the sense of measure theory and its compound notions are then derived from a non linear dit to bit transform that re quantifies the distinctions of a random variable in terms of bits so the Shannon entropy is the average number of binary distinctions or bits necessary to make all the distinctions of the random variable And using a linearization method all the set concepts in this logical information theory naturally extend to vector spaces in general and to Hilbert spaces in particular for quantum logical information theory which provides the natural measure of the distinctions made in quantum measurement Relatively short but dense in content this work can be a reference to researchers and graduate students doing investigations in information theory maximum entropy methods in physics engineering and statistics and to all those with a special interest in a new approach to quantum information theory

Diatom Morphogenesis Vadim V. Annenkov, Joseph Seckbach, Richard Gordon, 2021-11-23 DIATOM MORPHOGENESIS A unique book presenting the range of silica structures formed by diatoms theories and hypotheses of how they are made and applications to nanotechnology by use or imitation of diatom

morphogenesis There are up to 200 000 species of diatoms each species of these algal cells bearing an ornate amorphous silica glass shell The silica is structured at 7 orders of magnitude size range and is thus the most complex multiscale solid structure known Recent research is beginning to unravel how a single cell marshals chemical physical biochemical genetic and cytoskeletal processes to produce these single cell marvels The field of diatom nanotechnology is advancing as this understanding matures Diatoms have been actively studied over the recent 10 20 years with various modern equipment experimental and computer simulation approaches including molecular biology fluorescence based methods electron confocal and AFM microscopy This has resulted in a huge amount of information but the key stages of their silica morphogenesis are still not clear This is the time to reconsider and consolidate the work performed so far and to understand how we can go ahead The main objective of this book is to describe the actual situation in the science of diatom morphogenesis to specify the most important unresolved questions and to present the corresponding hypotheses The following areas are discussed A tutorial chapter with a glossary for newcomers to the field who are often from outside of biology let alone phycology Diatom Morphogenesis general issues including symmetry and size issues Diatom Morphogenesis simulation including analytical and numerical methods for description of the diatom valve shape and pore structure Diatom Morphogenesis physiology biochemistry and applications including the relationship between taxonomy and physiology biosilicification hypotheses and ideas about applications of diatoms Audience Researchers scientists and graduate students in the fields of phycology general biology marine sciences the chemistry of silica materials science and ecology

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