College of Management   **NYCU**

517013 Operations Research (I)
Tutorial of Simplex method

Regular Simplex Method
Question R1.

Maximize $z = 5x_1 + x_2$

subject to: $2x_1 + x_2 \leq 6$

$x_1 - x_2 \leq 0$

$x_1, x_2 \geq 0$

Question R2

Minimize $z = -x_1 - x_2$

subject to: $x_1 - x_2 \leq 1$

$x_1 + x_2 \leq 2$

$x_1, x_2 \geq 0$

Question R3

Maximize $z = 2x_1 + 2x_2 + 4x_3$

subject to: $x_1 + x_2 + 2x_3 \leq 200$

$3x_1 + 2x_2 + 5x_3 \leq 420$

$2x_1 + x_2 + 3x_3 \leq 240$

$x_1, x_2, x_3 \geq 0$

Advanced Simplex Method
Question A1:
Solve to following LP problem by Big-M and Two-Phase Simplex method.

Minimize $z = 2x_1 + 3x_2$

subject to: $2x_1 + x_2 \geq 4$

$-x_1 + x_2 \leq 1$

$x_1, x_2 \geq 0$

Question A2:
Solve to following LP problem by Big-M and Two-Phase Simplex method.

Minimize $z = 4x_1 + 4x_2 + x_3$

subject to: $x_1 + x_2 + x_3 \leq 2$

$2x_1 + x_2 \leq 3$

$2x_1 + x_2 + 3x_3 \geq 3$

$x_1, x_2, x_3 \geq 0$

Numerical Analysis Combinatorial Proc

John R. Rice

Numerical Analysis Combinatorial Proc:

Combinatorial Mathematics D. A. Holton,J. Seberry,2006-11-15 **Combinatorial Geometry** János Pach,Pankaj K. Agarwal,2011-10-18 A complete self contained introduction to a powerful and resurgingmathematical discipline Combinatorial Geometry presents andexplains with complete proofs some of the most important resultsand methods of this relatively young mathematical discipline started by Minkowski Fejes Toth Rogers and Erd s Nearly halfthe results presented in this book were discovered over the pasttwenty years and most have never before appeared in any monograph Combinatorial Geometry will be of particular interest tomathematicians computer scientists physicists and materialsscientists interested in computational geometry robotics sceneanalysis and computer aided design It is also a superb textbook complete with end of chapter problems and hints to their solutionsthat help students clarify their understanding and test theirmastery of the material Topics covered include Geometric number theory Packing and covering with congruent convex disks Extremal graph and hypergraph theory Distribution of distances among finitely many points Epsilon nets and Vapnik Chervonenkis dimension Geometric graph theory Geometric discrepancy theory And much more Mathematical Software John R. Rice,2014-05-27 Mathematical Software deals with software designed for mathematical applications such as Fortran CADRE SQUARS and DESUB The distribution and sources of mathematical software are discussed along with number representation and significance monitoring User modifiable software and non standard arithmetic programs are also considered Comprised of nine chapters this volume begins with a historical background in the form of a chronological list of events that trace the development of computing in general and mathematical software in particular The next chapter examines where and how mathematical software is being created and how it is being disseminated to eventual consumers A number of important shortcomings are identified The future of mathematical software and the challenges facing mathematical software are then discussed Subsequent chapters focus on the point of view of people outside the professional community of mathematical software the monitoring of significance in computation and its relation to number representation libraries of mathematical software and the automation of numerical analysis Eleven algorithms for numerical quadrature are also compared This book should be of considerable interest to students and specialists in the fields of mathematics and computer science

Recursive Algebra, Analysis and Combinatorics ,1998-11-30 Recursive Algebra Analysis and Combinatorics Topics on Steiner Systems ,2011-08-26 Topics on Steiner Systems *Polynomial Methods in Combinatorics* Larry Guth,2016-06-10 This book explains some recent applications of the theory of polynomials and algebraic geometry to combinatorics and other areas of mathematics One of the first results in this story is a short elegant solution of the Kakeya problem for finite fields which was considered a deep and difficult problem in combinatorial geometry The author also discusses in detail various problems in incidence geometry associated to Paul Erd s s famous distinct distances problem in the plane from the 1940s The proof techniques are also connected to error correcting codes Fourier analysis number theory and differential geometry

Although the mathematics discussed in the book is deep and far reaching it should be accessible to first and second year graduate students and advanced undergraduates The book contains approximately 100 exercises that further the reader s understanding of the main themes of the book   Combinatorics, Words and Symbolic Dynamics Valérie Berthé,Michel Rigo,2016-02-26 Internationally recognised researchers look at developing trends in combinatorics with applications in the study of words and in symbolic dynamics They explain the important concepts providing a clear exposition of some recent results and emphasise the emerging connections between these different fields Topics include combinatorics on words pattern avoidance graph theory tilings and theory of computation multidimensional subshifts discrete dynamical systems ergodic theory numeration systems dynamical arithmetics automata theory and synchronised words analytic combinatorics continued fractions and probabilistic models Each topic is presented in a way that links it to the main themes but then they are also extended to repetitions in words similarity relations cellular automata friezes and Dynkin diagrams The book will appeal to graduate students research mathematicians and computer scientists working in combinatorics theory of computation number theory symbolic dynamics tilings and stringology It will also interest biologists using text algorithms

Combinatorics and Graph Theory John M. Harris,Jeffry L. Hirst,Michael J. Mossinghoff,2000-07-19 This book evolved from several courses in combinatorics and graph theory given at Appalachian State University and UCLA Chapter 1 focuses on finite graph theory including trees planarity coloring matchings and Ramsey theory Chapter 2 studies combinatorics including the principle of inclusion and exclusion generating functions recurrence relations P lya theory the stable marriage problem and several important classes of numbers Chapter 3 presents infinite pigeonhole principles K nig s lemma and Ramsey s theorem and discusses their connections to axiomatic set theory The text is written in an enthusiastic and lively style It includes results and problems that cross subdisciplines emphasizing relationships between different areas of mathematics In addition recent results appear in the text illustrating the fact that mathematics is a living discipline The text is primarily directed toward upper division undergraduate students but lower division undergraduates with a penchant for proof and graduate students seeking an introduction to these subjects will also find much of interest   **Routing, Flow, and Capacity Design in Communication and Computer Networks** Michal Pioro,Deep Medhi,2004-07-21 In network design the gap between theory and practice is woefully broad This book narrows it comprehensively and critically examining current network design models and methods You will learn where mathematical modeling and algorithmic optimization have been under utilized At the opposite extreme you will learn where they tend to fail to contribute to the twin goals of network efficiency and cost savings Most of all you will learn precisely how to tailor theoretical models to make them as useful as possible in practice Throughout the authors focus on the traffic demands encountered in the real world of network design Their generic approach however allows problem formulations and solutions to be applied across the board to virtually any type of backbone communication or computer network For beginners this book is an excellent introduction For seasoned

professionals it provides immediate solutions and a strong foundation for further advances in the use of mathematical modeling for network design Written by leading researchers with a combined 40 years of industrial and academic network design experience Considers the development of design models for different technologies including TCP IP IDN MPLS ATM SONET SDH and WDM Discusses recent topics such as shortest path routing and fair bandwidth assignment in IP MPLS networks Addresses proper multi layer modeling across network layers using different technologies for example IP over ATM over SONET IP over WDM and IDN over SONET Covers restoration oriented design methods that allow recovery from failures of large capacity transport links and transit nodes Presents at the end of each chapter exercises useful to both students and practitioners **Numerical Methods for Linear Control Systems** Biswa Datta,2004 Numerical Methods for Linear Control Systems Design and Analysis is an interdisciplinary textbook aimed at systematic descriptions and implementations of numerically viable algorithms based on well established efficient and stable modern numerical linear techniques for mathematical problems arising in the design and analysis of linear control systems both for the first and second order models Unique coverage of modern mathematical concepts such as parallel computations second order systems and large scale solutions Background material in linear algebra numerical linear algebra and control theory included in text Step by step explanations of the algorithms and examples *Advanced Combinatorics* Louis Comtet,2012-12-06 Notwithstanding its title the reader will not find in this book a systematic account of this huge subject Certain classical aspects have been passed by and the true title ought to be Various questions of elementary combina torial analysis For instance we only touch upon the subject of graphs and configurations but there exists a very extensive and good literature on this subject For this we refer the reader to the bibliography at the end of the volume The true beginnings of combinatorial analysis also called combina tory analysis coincide with the beginnings of probability theory in the 17th century For about two centuries it vanished as an autonomous sub ject But the advance of statistics with an ever increasing demand for configurations as well as the advent and development of computers have beyond doubt contributed to reinstating this subject after such a long period of negligence For a long time the aim of combinatorial analysis was to count the different ways of arranging objects under given circumstances Hence many of the traditional problems of analysis or geometry which are con cerned at a certain moment with finite structures have a combinatorial character Today combinatorial analysis is also relevant to problems of existence estimation and structuration like all other parts of mathema tics but exclusively forjinite sets **Computing and Combinatorics** Jie Wang,2003-05-15 This book constitutes the refereed proceedings of the 7th Annual International Conference on Computing and Combinatorics COCOON 2001 held in Guilin China in August 2001 The 50 revised full papers and 16 short papers presented were carefully reviewed and selected from 97 submissions The papers are organized in topical sections on complexity theory computational biology computational geometry data structures and algorithms games and combinatorics graph algorithms and complexity graph drawing graph theory online algorithms

randomized and average case algorithms Steiner trees systems algorithms and modeling and computability **Handbook of Combinatorics** R.L. Graham,Martin Grötschel,László Lovász,1995-12-11 **International Journal of Mathematical Combinatorics, Volume 1, 2015** Linfan Mao, The International J Mathematical Combinatorics is a fully refereed international journal sponsored by the MADIS of Chinese Academy of Sciences and published in USA quarterly which publishes original research papers and survey articles in all aspects of mathematical combinatorics Smarandache multi spaces Smarandache geometries non Euclidean geometry topology and their applications to other sciences

Combinatorics Nicholas Loehr,2017-08-10 Combinatorics Second Edition is a well rounded general introduction to the subjects of enumerative bijective and algebraic combinatorics The textbook emphasizes bijective proofs which provide elegant solutions to counting problems by setting up one to one correspondences between two sets of combinatorial objects The author has written the textbook to be accessible to readers without any prior background in abstract algebra or combinatorics Part I of the second edition develops an array of mathematical tools to solve counting problems basic counting rules recursions inclusion exclusion techniques generating functions bijective proofs and linear algebraic methods These tools are used to analyze combinatorial structures such as words permutations subsets functions graphs trees lattice paths and much more Part II cover topics in algebraic combinatorics including group actions permutation statistics symmetric functions and tableau combinatorics This edition provides greater coverage of the use of ordinary and exponential generating functions as a problem solving tool Along with two new chapters several new sections and improved exposition throughout the textbook is brimming with many examples and exercises of various levels of difficulty *Mathematical Support for Molecular Biology* Martin Farach-Colton,1999 Contains papers related to the 1994 98 DIMACS Special Year in Mathematical Support for Biology which involved a series of tutorials workshops and lectures Papers reflect diverse work at the interface between the mathematical sciences and molecular biology Topics include new uses for uniform lifted alignments sequence alignment and phylogeny construction formal language theory and biological macromolecules parallel strategies for DNA manipulation analysis and visualizing measures of genetic distance No index Annotation copyrighted by Book News Inc Portland OR *Advances in Discrete and Computational Geometry* Bernard Chazelle,Jacob E. Goodman,Richard Pollack,1999 This volume is a collection of refereed expository and research articles in discrete and computational geometry written by leaders in the field Articles are based on invited talks presented at the AMS IMS SIAM Summer Research Conference Discrete and Computational Geometry Ten Years Later held in 1996 at Mt Holyoke College So Hadley MA Topics addressed range from tilings polyhedra and arrangements to computational topology and visibility problems Included are papers on the interaction between real algebraic geometry and discrete and computational geometry as well as on linear programming and geometric discrepancy theory Computational Discrete Mathematics Sriram Pemmaraju,Steven Skiena,2003-12-08 This definitive reference on Combinatorica contains examples of all 450 functions plus tutorial text

Introduction to Standard Methods of Numerical Analysis University of Michigan. Engineering Summer Conferences,1964

MATHEMATICAL COMBINATORICS (INTERNATIONAL BOOK SERIES) Linfan MAO,2013 The mathematical combinatorics is a subject that applying combinatorial notion to all mathematics and all sciences for understanding the reality of things in the universe motivated by CC Conjecture of Dr Linfan MAO on mathematical sciences TheMathematical Combinatorics International Book Series is a fully refereed international book series with an ISBN number on each issue sponsored by the MADIS of Chinese Academy of Sciences and published in USA quarterly which publishes original research papers and survey articles in all aspects of mathematical combinatorics Smarandachemulti spaces Smarandache geometries non Euclidean geometry topology and their applications to other sciences

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~~racial disadvantage and ethnic diversity in britain~~

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