

geomath (Finals)

LINEAR PROGRAMMING

- output is proportional to input
- Linear equation: algebraic equation in which terms are constant or the product of a constant and a single variable - no exponents - they can't be constant

single variable (first power)

x^1 - linear

x^2 - quadratic

Represented by - $ax + by = c$ (a, b, c - constant) (x, y - unknown)

System of linear equation:

- Linear equation (one or 2 variable)
- A system of linear equation is the common point (ordered pair)
- $a, b \neq 0$ (coeff. not be equal to 0, same label)
↳ standard equation ($ax + by = c$)

$$\text{ex: } \begin{aligned} ax + by &= c \\ 2x + 3y &= 5 \\ 0 + 0 &= 5 \\ 0 & \neq 5 \end{aligned}$$

- (puede ka sekula) ex: $ax + by = c$
 $2x + 4y = 5$
 $0 + 2y = 5$
 $2y = 5$

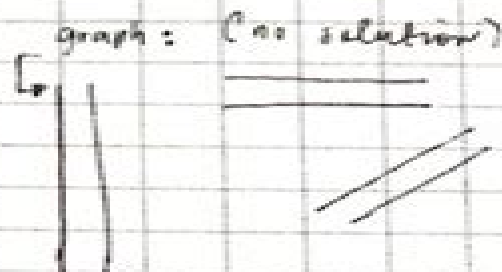
- L_1 = first linear
 L_2 = second linear

Types of system of linear equation:

a. Inconsistent, consistent & dependent

Inconsistent

- solution is empty set
- consist of 2 parallel lines
- determined using ratio test



Linear Programming Lecture Notes

Sabine Zange



Linear Programming Lecture Notes:

On Round-Off Errors in Linear Programming H. Müller-Merbach, 2012-12-06 Due to the limited number of digits or bits per storage location in electronic computers round off errors arise during arithmetic operations Depending upon the kind of operation the structure of the data and the skillfulness of the program these errors increase and spread out more or less quickly during a continued computation process in which the computed data affected by errors are themselves used for generating new data The purpose of this investigation was to learn about the increase of round off errors in linear programming procedures Less attention was paid to the theory of round off errors or to the effectiveness of error elimination procedures In regard to these questions the results of investigations which have been made on round off errors in a more general context dealing with matrix inversion and eigenvalue problems could be used for the purposes of this paper The emphasis of this investigation lay rather on studying the behavior of typical linear programming problems from the point of view of error cumulation [Computer Sciences 525](#) Olvi L. Mangasarian, 1978 [Encyclopedia of Microcomputers](#) Allen Kent, James G. Williams, 1992-05-27 The Encyclopedia of Microcomputers serves as the ideal companion reference to the popular Encyclopedia of Computer Science and Technology Now in its 10th year of publication this timely reference work details the broad spectrum of microcomputer technology including microcomputer history explains and illustrates the use of microcomputers throughout academic business government and society in general and assesses the future impact of this rapidly changing technology

Multicriteria Analysis Joao Climaco, 2012-12-06 J Climaco and C H Antunes After the pleasure which has been to host the community of researchers and practitioners in the area of multicriteria analysis MA in Coimbra in August 1994 this volume of proceedings based on the papers presented at the conference is the last step of that venture Even though this may not be the appropriate place we cannot resist however the temptation to express herein some brief feelings about the conference Almost everything concerning the conference organisation has been handcrafted by a small number of people with the advantages and disadvantages that this approach generates Our first word of acknowledgement is of course due to those who have had a permanent and active role in the multiple aspects which make the success of a conference Maria Joao Alves Carlos Henggeler Antunes who is a co author of this introduction since he has closely collaborated with me in the scientific programme Joao Paulo Costa Luis Dias who greatly contributed to the organisation of this volume and Paulo Melo as well as Leonor Dias from the Faculty of Economics who has shown an outstanding dedication To those who collaborated with the organisers in the framework of their professional activity special thanks due to Adelina whose dedication greatly exceeded her duties As you probably know from your own experience every small detail of the conference organisation required a lot of sweating but the atmosphere of joy and friendship then generated has been a generous payoff

Vector Optimization and Monotone Operators via Convex Duality Sorin-Mihai Grad, 2014-09-03 This book investigates several duality approaches for vector optimization problems while also

comparing them Special attention is paid to duality for linear vector optimization problems for which a vector dual that avoids the shortcomings of the classical ones is proposed Moreover the book addresses different efficiency concepts for vector optimization problems Among the problems that appear when the framework is generalized by considering set valued functions an increasing interest is generated by those involving monotone operators especially now that new methods for approaching them by means of convex analysis have been developed Following this path the book provides several results on different properties of sums of monotone operators

Math 5593 Linear Programming Lecture Notes Alexander Engau,2014-11-25 Math 5593 Linear Programming Lecture NotesBy Alexander Engau Research in Stochastic Programming John R. Birge,2001

Data Mining Yong Yin,Ikou Kaku,Jiafu Tang,JianMing Zhu,2011-03-16 *Data Mining* introduces in clear and simple ways how to use existing data mining methods to obtain effective solutions for a variety of management and engineering design problems *Data Mining* is organised into two parts the first provides a focused introduction to data mining and the second goes into greater depth on subjects such as customer analysis It covers almost all managerial activities of a company including supply chain design product development manufacturing system design product quality control and preservation of privacy Incorporating recent developments of data mining that have made it possible to deal with management and engineering design problems with greater efficiency and efficacy *Data Mining* presents a number of state of the art topics It will be an informative source of information for researchers but will also be a useful reference work for industrial and managerial practitioners

The American Mathematical Monthly ,1980 *Encyclopedia of Optimization* Christodoulos A. Floudas,Panos M. Pardalos,2008-09-04 The goal of the *Encyclopedia of Optimization* is to introduce the reader to a complete set of topics that show the spectrum of research the richness of ideas and the breadth of applications that has come from this field The second edition builds on the success of the former edition with more than 150 completely new entries designed to ensure that the reference addresses recent areas where optimization theories and techniques have advanced Particularly heavy attention resulted in health science and transportation with entries such as *Algorithms for Genomics Optimization and Radiotherapy Treatment Design and Crew Scheduling*

Finite Algorithms in Optimization and Data Analysis M. R. Osborne,1985-12-23 The significance and originality of this book derive from its novel approach to those optimization problems in which an active set strategy leads to a finite algorithm such as linear and quadratic programming or l_1 and l_2 approximations

Applications of Secure Multiparty Computation Peeter Laud,Liina Kamm,2015-07-15 We generate and gather a lot of data about ourselves and others some of it highly confidential The collection storage and use of this data is strictly regulated by laws but restricting the use of data often limits the benefits which could be obtained from its analysis Secure multi party computation SMC a cryptographic technology makes it possible to execute specific programs on confidential data while ensuring that no other sensitive information from the data is leaked SMC has been the subject of academic study for more than 30 years but first attempts to use it for actual computations in the

early 2000s although theoretically efficient were initially not practicable However improvements in the situation have made possible the secure solving of even relatively large computational tasks This book describes how many different computational tasks can be solved securely yet efficiently It describes how protocols can be combined to larger applications and how the security efficiency trade offs of different components of an SMC application should be chosen Many of the results described in this book were achieved as part of the project Usable and Efficient Secure Multi party Computation UaESMC which was funded by the European Commission The book will be of interest to all those whose work involves the secure analysis of confidential data

Linear Programming Bruce R. Feiring, 1986-04 Linear Programming is a well written introduction to the techniques and applications of linear programming It clearly shows readers how to model solve and interpret appropriate linear programming problems Feiring has presented several carefully chosen examples which provide a foundation for mathematical modelling and demonstrate the wide scope of the techniques He subsequently develops an understanding of the Simplex Method and Sensitivity Analysis and includes a discussion of computer codes for linear programming This book should encourage the spread of linear programming techniques throughout the social sciences and since it has been developed from Feiring s own class notes it is ideal for students particularly those with a limited background in quantitative methods

Optimization Theory and Its Application Lou Caccetta, 2001

New Technical Books New York Public Library, 1977

MCDM Milan Zeleny, 1984

Bibliographie der Wirtschaftswissenschaften, 1997

Library of Congress Catalogs Library of Congress, 1976

Scientific and Technical Books in Print, 1972

Mathematical Programming Study, 1984

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