

Nichtlineare Programmierung

Mit Nebenbedingungen

mehrdimensional

Nichtlineare Programmierung

B. Zhelyazova

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Nichtlineare Programmierung:

Introduction to the Theory of Nonlinear Optimization Johannes Jahn, 2020-07-02 This book serves as an introductory text to optimization theory in normed spaces and covers all areas of nonlinear optimization. It presents fundamentals with particular emphasis on the application to problems in the calculus of variations, approximation, and optimal control theory. The reader is expected to have a basic knowledge of linear functional analysis. *Numerical Methods of Mathematical Optimization* Hans P. Künzi, H. G. Tzschach, C. A. Zehnder, 2014-05-12 Numerical Methods of Mathematical Optimization With ALGOL and FORTRAN Programs reviews the theory and the practical application of the numerical methods of mathematical optimization. An ALGOL and a FORTRAN program was developed for each one of the algorithms described in the theoretical section. This should result in easy access to the application of the different optimization methods. Comprised of four chapters, this volume begins with a discussion on the theory of linear and nonlinear optimization with the main stress on an easily understood, mathematically precise presentation. In addition to the theoretical considerations, several algorithms of importance to the numerical application of optimization theory are described. The next chapter explains the computer programs used in actual optimization, which have the form of procedures or subroutines. The book concludes with an analysis of ALGOL and FORTRAN, paying particular attention to their use in global optimization procedures as well as for the simplex and duoplex methods and the decomposition Gomory, Beale, and Wolfe algorithms. This monograph will be helpful to students and practitioners of computer science and applied mathematics. *Optimization of Biomass-to-Liquid Plant Setups and Capacity Using Nonlinear Programming* Lars-Peter Lauven, 2011-10-12 Potentially rising oil prices caused by an increasing relative scarcity of mineral oil have far-reaching consequences for the transportation sector, the chemical industry, and mineral oil companies in particular. As national laws in Germany require biofuels to be mixed into conventional fuel to an increasing extent, BioKraftQuG 2009, mineral oil companies need to identify economically competitive as well as technically feasible biofuel production processes to meet these requirements. A first generation of biofuels was introduced on a large scale but has been criticized for competing with the agricultural production of food and for yielding relatively modest quantities of fuel per hectare of agricultural land. For this reason, 2nd generation biofuel production pathways such as Biomass to Liquid (BtL), which convert lignocellulosic material into liquid hydrocarbons using Fischer-Tropsch synthesis, have been developed. While 2nd generation biofuels are superior to their 1st generation counterparts from a yield per hectare perspective and cause less competition for agricultural soils, a significant disadvantage is the considerable investment required for the construction of Biomass to Liquid plants. The corresponding investment-related costs affect the competitiveness of 2nd generation biofuels negatively, leaving it in doubt whether BtL fuels could become an economically viable option. A frequently discussed way to improve specific investment-related costs is to increase plant sizes to improve economies of scale. While this improvement has been realized in several conventional kinds of plants like mineral oil

refineries power plants and Coal to Liquid plants the application on BtL plants is complicated by the fact that larger plants are associated with higher specific biomass transportation costs This is because a higher biomass input requires biomass to be transported over larger distances The unresolved antagonism between economies of scale and specific biomass transportation costs has so far hindered the realization of BtL plants The aim of this thesis is to develop a methodology to determine optimal BtL plant sizes by taking nonlinear factors into account The methodology is required to determine a compromise between minimizing investment related costs by applying economies of scale and minimizing specific biomass transportation costs by keeping the required transportation distances short The optimal plant size is however influenced by a third influencing factor Whether it is advantageous to transport biomass over a certain distance also depends on the value of a plant's products Biomass to Liquid plants can have a variety of product compositions depending on the catalyst and reaction temperature used in the biofuel synthesis reaction Depending on which substances are produced and which are upgraded for sale converted into fuels or combusted for electricity generation both the value of the products and the required investment may differ considerably While a number of processes including biomass treatment and gasification as well as the Fischer Tropsch synthesis itself are required for all considered plant setup alternatives the choice of upgrading equipment may result in very dissimilar plant setups By making the capacities of the individual upgrading processes the variables of the optimization model economies of scale specific biomass transportation costs and the products value are considered simultaneously for the first time The thesis primarily focuses on the implementation of an optimization model and its application on a variety of scenarios These scenarios are intended to represent different plant setups and logistics concepts In order to assess the scale of differences in profitability the essential influencing factors determining the profitability of BtL plants were included into the model calculations As the problem at hand is neither linear nor quadratic it cannot be solved reliably using established solvers for these two classes of problems Instead several solvers designed to handle non quadratic nonlinear multidimensional problems were applied to find the most suitable way to approach the solution of the problem The objective function has been designed to maximize the annual profit resulting from plant construction and operation Maximizing this annual profit is subject to a number of primarily technical constraints These result from the mass balances of the plant its electricity demand and the specific requirements of individual processes In addition to securing the validity of the mass balances these constraints also ensure that the entire Fischer Tropsch product stream undergoes some kind of upgrading separation or combustion treatment The sum of all processes producing salable products is used to approximate the required capacity of the plant as a whole The total plant capacity then serves to calculate the investment required for the other plant processes and the costs for the purchase and transportation of the required input biomass Biomass transportation distances are approximated by the radius of an assumed circular area from which biomass is supplied to the plant Using cost functions that divide transportation costs into fixed and variable parts makes it possible to

approximate the effect of rising specific biomass transportation costs in case of increasing plant capacities. The investigated scenario calculations suggest that under the assumed circumstances fuel oriented low temperature Fischer Tropsch based BtL plants are relatively competitive as long as the tax exemptions in Germany are maintained but become significantly less attractive without them. By contrast the combined production of both fuels and chemicals using high temperature Fischer Tropsch synthesis appears to be a more promising alternative as chemicals are expected to earn a higher income in scenarios without tax exemptions. A third option the production of Substitute Natural Gas appears to be relatively uncompetitive unless methane prices rise significantly. In addition to comparing the economic attractiveness of different potential product distributions a number of concepts have been investigated which are intended to improve Biomass to Liquid economics. Decentralized pretreatment of biomass e.g. through fast pyrolysis leads to larger optimal plant capacities but the additional investment for the pretreatment units appears to overcompensate the improved economies of scale. By contrast the combined use of train and road transportation was not assumed to be associated with additional investments. If train transportation is indeed feasible for a given plant location and specific biomass transportation costs are lower than for road transportation combined traffic concepts should be used whenever possible. The construction of BtL plants in conjunction with mineral oil refineries is a way to reduce investment related costs instead of transportation costs. While the resulting savings are significant for small BtL plants they diminish if larger plant sizes are investigated. Cogasification of biomass with another input material is another way to reduce the costly transportation of biomass over large distances. Unless technical requirements significantly increase the cost of the gasification equipment co gasification concepts can improve the plant's profitability even at relatively low quantities of a second fuel. The choice of fuels is however restricted by the Renewable Energy Directive that needs to be abided by in order to ensure the eligibility for tax exemptions. In case of lignite and hard coal fossil CO₂ emissions further complicate the application of co gasification as Renewable Energy Directive also limits the amount of fossil CO₂ that biofuel production is allowed to cause. As savings caused by such concepts depend on the relative inefficiency of the concept that they are applied on the effect of the implementation of several improvements diminishes if these address the same cost item. In this work the nonlinear effects of economies of scale and biomass transportation costs for increasing Biomass to Liquid plant capacities has been modeled on a product upgrading process basis for the first time. Potential investors and plant operators of Biomass to Liquid plants are thus enabled to determine both the optimal plant size and the most promising choice of products in order to maximize the prospective competitiveness of the plant.

Foundations of Bilevel Programming Stephan Dempe, 2005-12-19 Bilevel programming problems are hierarchical optimization problems where the constraints of one problem the so called upper level problem are defined in part by a second parametric optimization problem the lower level problem. If the lower level problem has a unique optimal solution for all parameter values this problem is equivalent to a one level optimization problem having an implicitly defined objective function. Special

emphasize in the book is on problems having non unique lower level optimal solutions the optimistic or weak and the pessimistic or strong approaches are discussed The book starts with the required results in parametric nonlinear optimization This is followed by the main theoretical results including necessary and sufficient optimality conditions and solution algorithms for bilevel problems Stationarity conditions can be applied to the lower level problem to transform the optimistic bilevel programming problem into a one level problem Properties of the resulting problem are highlighted and its relation to the bilevel problem is investigated Stability properties numerical complexity and problems having additional integrality conditions on the variables are also discussed Audience Applied mathematicians and economists working in optimization operations research and economic modelling Students interested in optimization will also find this book useful

Dictionary of Electronics, Computing and Telecommunications/Wörterbuch der Elektronik, Datentechnik und Telekommunikation Vittorio Ferretti, 2012-12-06 Since the first edition was published new technologies have come up especially in the area of convergence of Computing and Communications accompanied by a lot of new technical terms This second expanded and updated edition has been worked out to cope with this situation The number of entries has been incremented by 35% With about 159 000 entries this dictionary offers a valuable guide to navigate through the entanglement of German and English terminology The lexicographic concept indication of the subject field for every term short definitions references to synonyms antonyms general and derivative terms has been maintained as well as the tabular layout

Elsevier's Dictionary of Automation Technics B. Zhelyazova, 2005-04-28 This dictionary contains 13 000 terms with more than 4 000 cross references used in the following fields automation technology of management and regulation computing machine and data processing computer control automation of industry laser technology theory of information and theory of signals theory of algorithms and programming philosophical bases of cybernetics cybernetics and mathematical methods Automation pertains to the theory art or technique of making a machine a process or a device more fully automatic Computers and information processing equipment play a large role in the automation of a process because of the inherent ability of a computer to develop decision that will in effect control or govern the process from the information received by the computer concerning the status of the process Thus automation pertains to both the theory and techniques of using automatic systems in industrial applications and the processes of investigation design and conversion to automatic methods Automatic control automatic materials handling automatic testing automatic packaging for continuous as well as batch processing are all considered parts of the overall or completely automatic process The Dictionary consists of two parts Basic Table and Indexes In the first part the English terms are listed alphabetically numbered consecutively and followed by its German French and Russian equivalents English synonyms appear as cross references to the main entries in their proper alphabetical order The second part of the Dictionary the Indexes contains separate alphabetical indexes of the German French and Russian terms The reference number s with each term stands for the number of the English term s in the basic

table Elsevier's Dictionary of Automatic Technics will be a valuable tool for specialists scientists students and everyone who takes interest in the problems of investigation devoted to the design development and applications of methods and techniques for rendering a process of group of machines self actuating self moving or self controlling *Nonlinear Programming Codes* Klaus Schittkowski,2012-12-06 Nonlinear Optimization H. A. Eiselt,Carl-Louis Sandblom,2019-11-09 This book provides a comprehensive introduction to nonlinear programming featuring a broad range of applications and solution methods in the field of continuous optimization It begins with a summary of classical results on unconstrained optimization followed by a wealth of applications from a diverse mix of fields e.g location analysis traffic planning and water quality management to name but a few In turn the book presents a formal description of optimality conditions followed by an in depth discussion of the main solution techniques Each method is formally described and then fully solved using a numerical example **Control Applications of Nonlinear Programming** H. E. Rauch,2014-05-23 Control Applications of Nonlinear Programming contains the proceedings of the International Federation of Automatic Control Workshop on Control Applications of Nonlinear Programming held in Denver Colorado on June 21 1979 The workshop provided a forum for discussing the application of optimal and nonlinear programming techniques to real life control problems The volume covers a variety of specific applications ranging from microprocessor control of automotive engines and optimal design of structures to optimal aircraft trajectories system identification and robotics Comprised of 14 chapters this book begins by describing the application of nonlinear programming to an optimum design problem coming from mechanical engineering The reader is then introduced to a nonlinear regulator design for magnetic suspension optimal control solution of the automotive emission constrained minimum fuel problem and nonlinear programming for system identification Subsequent chapters focus on mathematical programming algorithms based on Lagrangian functions for solving optimal control problems computer aided design via optimization optimal and suboptimal control of oscillating dynamical systems and the application of nonlinear programming to the solution of optimal output constrained regulator problems This monograph will be of interest to mathematicians computer scientists and engineers **Non-Linear Parametric Optimization** BANK,GUDDAT,KLATTE,KUMMER,TAMMER,2013-12-21

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