

Linear Programming Solver Sensitivity Report

Dirk Inghels

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Linear Programming: An Introduction to Finite Improvement Algorithms Daniel Solow, 2014-08-11 This text covers the basic theory and computation for a first course in linear programming including substantial material on mathematical proof techniques and sophisticated computation methods Includes Appendix on using Excel 1984 edition Strategic Allocation of Resources Using Linear Programming Model with Parametric Analysis: in MATLAB and Excel Solver Dinesh Gupta, 2014-05-27 Since the late 1940s linear programming models have been used for many different purposes Airline companies apply these models to optimize their use of planes and staff NASA has been using them for many years to optimize their use of limited resources Oil companies use them to optimize their refinery operations Small and medium sized businesses use linear programming to solve a huge variety of problems often involving resource allocation In my study a typical product mix problem in a manufacturing system producing two products each product consists of two sub assemblies is solved for its optimal solution through the use of the latest versions of MATLAB having the command simly which is very much like linprog As analysts we try to find a good enough solution for the decision maker to make a final decision Our attempt is to give the mathematical description of the product mix optimization problem and bring the problem into a form ready to call MATLAB s simlp command The objective of this study is to find the best product mix that maximizes profit The graph obtained using MATLAB commands give the shaded area enclosed by the constraints called the feasible region which is the set of points satisfying all the constraints To find the optimal solution we look at the lines of equal profit to find the corner of the feasible region which yield the highest profit This corner can be found out at the farthest line of equal profit which still touches the feasible region The most critical part is the sensitivity analysis using Excel Solver and Parametric Analysis using computer software which allows us to study the effect on optimal solution due to discrete and continuous change in parameters of the LP model including to identify bottlenecks We have examined other options like product outsourcing one time cost cross training of one operator manufacturing of hypothetical third product on under utilized machines and optimal sequencing of jobs on machines An Introduction to Linear Programming and Game Theory Paul R. Thie, Gerard E. Keough, 2011-09-15 Praise for the Second Edition This is guite a well done book very tightly organized better than average exposition and numerous examples illustrations and applications Mathematical Reviews of the American Mathematical Society An Introduction to Linear Programming and Game Theory Third Edition presents a rigorous yet accessible introduction to the theoretical concepts and computational techniques of linear programming and game theory Now with more extensive modeling exercises and detailed integer programming examples this book uniquely illustrates how mathematics can be used in real world applications in the social life and managerial sciences providing readers with the opportunity to develop and apply their analytical abilities when solving realistic problems This Third Edition addresses various new topics and improvements in the field of mathematical programming and it also presents two software programs

LP Assistant and the Solver add in for Microsoft Office Excel for solving linear programming problems LP Assistant developed by coauthor Gerard Keough allows readers to perform the basic steps of the algorithms provided in the book and is freely available via the book s related Web site. The use of the sensitivity analysis report and integer programming algorithm from the Solver add in for Microsoft Office Excel is introduced so readers can solve the book s linear and integer programming problems A detailed appendix contains instructions for the use of both applications Additional features of the Third Edition include A discussion of sensitivity analysis for the two variable problem along with new examples demonstrating integer programming non linear programming and make vs buy models Revised proofs and a discussion on the relevance and solution of the dual problem A section on developing an example in Data Envelopment Analysis An outline of the proof of John Nash's theorem on the existence of equilibrium strategy pairs for non cooperative non zero sum games Providing a complete mathematical development of all presented concepts and examples Introduction to Linear Programming and Game Theory Third Edition is an ideal text for linear programming and mathematical modeling courses at the upper undergraduate and graduate levels It also serves as a valuable reference for professionals who use game theory in business economics and management science Optimization Modeling with Spreadsheets Kenneth R. Baker, 2015-06-15 An accessible introduction to optimization analysis using spreadsheets Updated and revised Optimization Modeling with Spreadsheets Third Edition emphasizes model building skills in optimization analysis By emphasizing both spreadsheet modeling and optimization tools in the freely available Microsoft Office Excel Solver the book illustrates how to find solutions to real world optimization problems without needing additional specialized software The Third Edition includes many practical applications of optimization models as well as a systematic framework that illuminates the common structures found in many successful models With focused coverage on linear programming nonlinear programming integer programming and heuristic programming Optimization Modeling with Spreadsheets Third Edition features An emphasis on model building using Excel Solver as well as appendices with additional instructions on more advanced packages such as Analytic Solver Platform and OpenSolver Additional space devoted to formulation principles and model building as opposed to algorithms New end of chapter homework exercises specifically for novice model builders Presentation of the Sensitivity Toolkit for sensitivity analysis with Excel Solver Classification of problem types to help readers see the broader possibilities for application Specific chapters devoted to network models and data envelopment analysis A companion website with interactive spreadsheets and supplementary homework exercises for additional practice Optimization Modeling with Spreadsheets Third Edition is an excellent textbook for upper undergraduate and graduate level courses that include deterministic models optimization spreadsheet modeling quantitative methods engineering management engineering modeling operations research and management science The book is an ideal reference for readers wishing to advance their knowledge of Excel and modeling and is also a useful guide for MBA students and modeling practitioners in business and non

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very marketable skill set for a wealth of jobs as well as useful tools for research in many academic disciplines Many of the problems rely on using a computer Microsoft s Excel is most often used as this is common in business but Python and other languages are considered. The consideration of other programming languages permits experienced mathematics and engineering students to use MATLAB or Mathematica and the computer science students to write their own programs in Java Operations Research Proceedings 2017 Natalia Kliewer, Jan Fabian Ehmke, Ralf Borndörfer, 2018-05-25 This book gathers a selection of peer reviewed papers presented at the International Conference on Operations Research OR 2017 which was held at Freie Universit t Berlin Germany on September 6 8 2017 More than 800 scientists practitioners and students from mathematics computer science business economics and related fields attended the conference and presented more than 500 papers in parallel topic streams as well as special award sessions. The main theme of the conference and its proceedings was Decision Analytics for the Digital Economy <u>Decision Methods for Forest Resource Management Joseph</u> Buongiorno, J. Keith Gilless, 2003-02-06 Decision Methods for Forest Resource Management focuses on decision making for forests that are managed for both ecological and economic objectives. The essential modern decision methods used in the scientific management of forests are described using basic algebra computer spreadsheets and numerous examples and applications Balanced treatment is given throughout the book to the ecological and economic impacts of alternative management decisions in both even aged and uneven aged forests In depth coverage of both ecological and economic issues Hands on examples with Excel spreadsheets electronic versions available on the authors website Many related exercises with Managerial Decision Modeling Nagraj (Raju) Balakrishnan, Barry solutions Instructor's Manual available upon request Render, Ralph Stair, Charles Munson, 2017-08-07 This book fills a void for a balanced approach to spreadsheet based decision modeling In addition to using spreadsheets as a tool to quickly set up and solve decision models the authors show how and why the methods work and combine the user's power to logically model and analyze diverse decision making scenarios with software based solutions The book discusses the fundamental concepts assumptions and limitations behind each decision modeling technique shows how each decision model works and illustrates the real world usefulness of each technique with many applications from both profit and nonprofit organizations. The authors provide an introduction to managerial decision modeling linear programming models modeling applications and sensitivity analysis transportation assignment and network models integer goal and nonlinear programming models project management decision theory queuing models simulation modeling forecasting models and inventory control models The additional material files Chapter 12 Excel files for each chapter Excel modules for Windows Excel modules for Mac 4th edition errata can be found at https www degruyter com view product 486941 Management Decision Making George E. Monahan, 2000-08-17 CD ROM contains Crystal Ball TreePlan AnimaLP Oueue ExcelWorkbooks Introduction to Modeling Sustainable Development in Business Processes Dirk Inghels, 2020-11-05 Sustainable development and corporate social responsibility drive countries regions and businesses to

take environmental and social concerns into account when realizing economic objectives A growing awareness of the connectedness between industrial societal and environmental systems might shift the way businesses will be operated This book aims to help students and business practitioners use quantitative modeling in their pursuit to make business processes sustainable Two approaches are introduced linear optimization and system dynamics Moreover the quantification of the three different sustainability objectives is also addressed Next to introducing the theoretical background many real life examples are discussed to demonstrate how the modelling techniques can be applied Using Duality and Sensitivity Analysis to Interpret Linear Programming Solutions James Edmund Reeb,2000 Optimization Method in Finance Mr. Rohit Manglik,2024-07-25 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

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