	project 1	project 2	project 3	project 4
worker 1	7	3	6	10
worker 2	5	4	9	9
worker 3	6	4	7	10
worker 4	5	5	6	8

(a) Formulate this problem of assigning workers and jobs at minimum cost as a linear program.

(b) Solve the model in (a) using MATLAB linprog function. If you get a fraction solution optimal solution then find a feasible integer solution (i.e. all variables are 0 or 1) with same optimal objective value. For this type of model, this will always be possible.

Solution: set x_{ij} = project j is assigned to worker i, then

$$\min \ 7x_{11} + 5x_{21} + 6x_{31} + 5x_{41}$$
$$+3x_{12} + 4x_{22} + 4x_{32} + 5x_{42}$$
$$+6x_{13} + 9x_{23} + 7x_{33} + 6x_{43}$$
$$+10x_{14} + 9x_{24} + 10x_{34} + 8x_{44}$$

$$\text{s.t.} \quad x_{11} + x_{21} + x_{31} + x_{41} = 1$$
$$x_{12} + x_{22} + x_{32} + x_{42} = 1$$
$$x_{13} + x_{23} + x_{33} + x_{43} = 1$$
$$x_{14} + x_{24} + x_{34} + x_{44} = 1$$
$$x_{11} + x_{12} + x_{13} + x_{14} = 1$$
$$x_{21} + x_{22} + x_{23} + x_{24} = 1$$
$$x_{31} + x_{32} + x_{33} + x_{34} = 1$$
$$x_{41} + x_{42} + x_{43} + x_{44} = 1$$

$$x_{ij} \geq 0, \ i = 1,2,3,4, \ j = 1,2,3,4.$$

(b) Solve the model by following MATLAB code:

```
%% Exercise 1.8
I=4; % number of workers
J=4; % number of projects
time_req = [7 3 6 10;
            5 4 9 9;
            6 4 7 10;
            5 5 6 8;];
wage = 20; % the wages is $20/hr
c = reshape(time_req, [], 1);% cost coefficient c
Aeq_j = []; % the constraint coefficient about project j
for j = 1:J
```

Linear Programming With Matlab Solution Manual

AW Chickering

Linear Programming With Matlab Solution Manual:

An Introduction to Optimization Edwin K. P. Chong,Stanislaw H. Zak,2004-03-22 A modern up to date introduction to optimization theory and methods This authoritative book serves as an introductory text to optimization at the senior undergraduate and beginning graduate levels With consistently accessible and elementary treatment of all topics An Introduction to Optimization Second Edition helps students build a solid working knowledge of the field including unconstrained optimization linear programming and constrained optimization Supplemented with more than one hundred tables and illustrations an extensive bibliography and numerous worked examples to illustrate both theory and algorithms this book also provides A review of the required mathematical background material A mathematical discussion at a level accessible to MBA and business students A treatment of both linear and nonlinear programming An introduction to recent developments including neural networks genetic algorithms and interior point methods A chapter on the use of descent algorithms for the training of feedforward neural networks Exercise problems after every chapter many new to this edition MATLAB r exercises and examples Accompanying Instructor s Solutions Manual available on request An Introduction to Optimization Second Edition helps students prepare for the advanced topics and technological developments that lie ahead It is also a useful book for researchers and professionals in mathematics electrical engineering economics statistics and business An Instructor s Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department **Introduction to Optimum Design** Jasbir Singh Arora,2016-04-05 Introduction to Optimum Design Fourth Edition carries on the tradition of the most widely used textbook in engineering optimization and optimum design courses It is intended for use in a first course on engineering design and optimization at the undergraduate or graduate level in engineering departments of all disciplines with a primary focus on mechanical aerospace and civil engineering courses Through a basic and organized approach the text describes engineering design optimization in a rigorous yet simplified manner illustrates various concepts and procedures with simple examples and demonstrates their applicability to engineering design problems Formulation of a design problem as an optimization problem is emphasized and illustrated throughout the text using Excel and MATLAB as learning and teaching aids This fourth edition has been reorganized rewritten in parts and enhanced with new material making the book even more appealing to instructors regardless of course level Includes basic concepts of optimality conditions and numerical methods that are described with simple and practical examples making the material highly teachable and learnable Presents applications of optimization methods for structural mechanical aerospace and industrial engineering problems Provides practical design examples that introduce students to the use of optimization methods early in the book Contains chapter on several advanced optimum design topics that serve the needs of instructors who teach more advanced courses **Proceedings of the 2nd International Conference on Internet, Education and Information Technology (IEIT 2022)** Ahmed El-Hashash,Fonny Dameaty Hutagalung,Ahmed

Said Ghonim,Kun Zhang,2023-02-10 This is an open access book As a leading role in the global megatrend of scientific innovation China has been creating a more and more open environment for scientific innovation increasing the depth and breadth of academic cooperation and building a community of innovation that benefits all These endeavors have made new contribution to globalization and creating a community of shared future To adapt to this changing world and China s fast development in this new area the 2nd International Conference on Internet Education and Information Technology IEIT 2022 is to be held in April 15 17 2022 This conference takes bringing together global wisdom in scientific innovation to promote high quality development as the theme and focuses on research fields including information technology education big data and Internet This conference aims to expand channels of international academic exchange in science and technology build a sharing platform of academic resources promote scientific innovation on the global scale improve academic cooperation between China and the outside world It also aims to encourage exchange of information on research frontiers in different fields connect the most advanced academic resources in China and abroad turn research results into industrial solutions bring together talents technologies and capital to boost development aaaa **Modern Control System Theory and Design** Stanley M. Shinners,1998-05-06 The definitive guide to control system design Modern Control System Theory and Design Second Edition offers themost comprehensive treatment of control systems available today Its unique text software combination integrates classical andmodern control system theories while promoting an interactive computer based approach to design solutions The sheer volume ofpractical examples as well as the hundreds of illustrations ofcontrol systems from all engineering fields make this volumeaccessible to students and indispensable for professionalengineers This fully updated Second Edition features a new chapter on moderncontrol system design including state space design techniques Ackermann s formula for pole placement estimation robust control and the H method for control system design Other notable additionsto this edition are Free MATLAB software containing problem solutions which can beretrieved from The Mathworks Inc anonymous FTP server atftp ftp mathworks com pub books shinners Programs and tutorials on the use of MATLAB incorporated directlyinto the text A complete set of working digital computer programs Reviews of commercial software packages for control systemanalysis An extensive set of new worked out illustrative solutions addedin dedicated sections at the end of chapters Expanded end of chapter problems one third with answers tofacilitate self study An updated solutions manual containing solutions to the remainingtwo thirds of the problems Superbly organized and easy to use Modern Control System Theoryand Design Second Edition is an ideal textbook for introductorycourses in control systems and an excellent professional reference Its interdisciplinary approach makes it invaluable for practicingengineers in electrical mechanical aeronautical chemical andnuclear engineering and related areas **Linear Algebra with Applications** Gareth Williams,2001 Designed for an introductory course in linear algebra this text combines theory computational techniques and applications Topics covered include Gauss Jordan elimination matrix operations vectors dot product linear transformation

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topics linking math and social justice and addresses both goals There is a broad range of mathematics used including statistical methods modeling calculus and basic algebra The range of social issues is also diverse including racial injustice mass incarceration income inequality and environmental justice There are lesson plans appropriate in many contexts service learning courses quantitative literacy reasoning courses introductory courses and classes for math majors What makes this book unique and timely is that the most previous curricula linking math and social justice have been treated from a humanist perspective This book is written by mathematicians for mathematics students Admittedly it can be intimidating for instructors trained in quantitative methods to venture into the arena of social dilemmas This volume provides encouragement support and a treasure trove of ideas to get you started The chapters in this book were originally published as a special issue of the journal PRIMUS Problems Resources and Issues in Mathematics Undergraduate Studies **Simulation-based Optimization of Energy Efficiency in Production** Anna Carina Römer,2021-02-11 The importance of the energy and commodity markets has steadily increased since the first oil crisis The sustained use of energy and other resources has become a basic requirement for a company to competitively perform on the market The modeling analysis and assessment of dynamic production processes is often performed using simulation software While existing approaches mainly focus on the consideration of resource consumption variables based on metrologically collected data on operating states the aim of this work is to depict the energy consumption of production plants through the utilization of a continuous simulation approach in combination with a discrete approach for the modeling of material flows and supporting logistic processes The complex interactions between the material flow and the energy usage in production can thus be simulated closer to reality especially the depiction of energy consumption peaks becomes possible An essential step towards reducing energy consumption in production is the optimization of the energy use of non value adding production phases Linear Programming with MATLAB Michael C. Ferris,Olvi L. Mangasarian,Stephen J. Wright,2007-01-01 A self contained introduction to linear programming using MATLAB software to elucidate the development of algorithms and theory Exercises are included in each chapter and additional information is provided in two appendices and an accompanying Web site Only a basic knowledge of linear algebra and calculus is required **Introduction to Linear Programming with MATLAB** Shashi Kant Mishra,Bhagwat Ram,2017-09-07 This book is based on the lecture notes of the author delivered to the students at the Institute of Science Banaras Hindu University India It covers simplex revised simplex two phase method duality dual simplex complementary slackness transportation and assignment problems with good number of examples clear proofs MATLAB codes and homework problems The book will be useful for both students and practitioners **Linear Programming Using MATLAB®** Nikolaos Ploskas,Nikolaos Samaras,2017-10-28 This book offers a theoretical and computational presentation of a variety of linear programming algorithms and methods with an emphasis on the revised simplex method and its components A theoretical background and mathematical formulation is included for each algorithm as well as comprehensive

numerical examples and corresponding MATLAB code The MATLAB implementations presented in this book are sophisticated and allow users to find solutions to large scale benchmark linear programs Each algorithm is followed by a computational study on benchmark problems that analyze the computational behavior of the presented algorithms As a solid companion to existing algorithmic specific literature this book will be useful to researchers scientists mathematical programmers and students with a basic knowledge of linear algebra and calculus The clear presentation enables the reader to understand and utilize all components of simplex type methods such as presolve techniques scaling techniques pivoting rules basis update methods and sensitivity analysis   Linear Algebra with Applications Charles G. Cullen,1997 This clear unintimidating introductory text is distinguished by its strong computational and applied approach Suitable for a sophomore level course in linear matrix or computational algebra it prepares students for further study in mathematics computer science chemistry or economics An outstanding interactive software package specifically developed to accompany this text offers ease of use power and flexibility focusing attention on the interpretation of calculations rather than on the calculations themselves The Second Edition has been improved by including more applications more motivation to discussions more graphics and discussions of various relevant software packages and the TI 85 graphics calculator   **Advanced Modern Control System Theory and Design** Stanley M. Shinners,1998-09-30 Linear Control System Compensation and Design Modern Control System Design Using State Space Pole Placement Ackermann s Formula Estimation Robust Control and H8 Techniques Digital Control System Analysis and Design Nonlinear Control System Design Introduction to Optimal Control Theory and Its Applications Control System Design Examples Complete Case Studies   **Interfaces** ,2005 Seeks to improve communication between managers and professionals in OR MS   **The Software Encyclopedia 2001** ,2001   **Proceedings, IEEE Control Systems Society ... Symposium on Computer-Aided Control System Design (CACSD).** ,2000   **Numerical Analysis** Richard L. Burden,J. Douglas Faires,1993 Gives an introduction to the modern approximation techniques and explains how why and when the techniques can be expected to work The authors focus on building students intuition to help them understand why the techniques presented work in general and why in some situations they fail With a wealth of examples and exercises the text demonstrates the relevance of numerical analysis to a variety of disciplines and provides ample practice for students The applications chosen demonstrate concisely how numerical methods can be and often must be applied in real life situations

Reviewing **Linear Programming With Matlab Solution Manual**: Unlocking the Spellbinding Force of Linguistics

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