

## **Optimization Modeling Lingo Solutions**

This book constitutes the refereed proceedings of the 8th International Conference on Ubiquitous Intelligence and Computing, UIC 2010, held in Banff, Canada, September 2011. The 44 papers presented together with two keynote speeches were carefully reviewed and selected from numerous submissions. The papers address all current issues in smart systems and services, smart objects and environments, cloud and services computing, security, privacy and trustworthy,

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P2P, WSN and ad hoc networks, and ubiquitous intelligent algorithms and applications. Gain a sound conceptual understanding of the role that management science plays in the decision-making process with the market leader that integrates the latest developments in Microsoft Office Excel 2016. The market-leading Anderson/Sweeney/Williams/Camm/Cochran/Fry/Ohlmann's AN INTRODUCTION TO MANAGEMENT SCIENCE: QUANTITATIVE APPROACHES TO DECISION MAKING, 15E uses a proven problem-scenario approach to introduce each quantitative technique within an

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applications setting. All data sets, applications, and screen visuals reflect the details of Excel 2016 to effectively prepare readers to work with the latest spreadsheet tools. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. This book is open access under a CC BY-NC 4.0 license. This revised, updated textbook presents a systems approach to the planning, management, and operation of water resources infrastructure in the environment. Previously published in 2005 by UNESCO and Deltares (Delft

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Hydraulics at the time), this new edition, written again with contributions from Jery R. Stedinger, Jozef P. M. Dijkman, and Monique T. Villars, is aimed equally at students and professionals. It introduces readers to the concept of viewing issues involving water resources as a system of multiple interacting components and scales. It offers guidelines for initiating and carrying out water resource system planning and management projects. It introduces alternative optimization, simulation, and statistical methods useful for project identification, design,

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siting, operation and evaluation and for studying post-planning issues. The authors cover both basin-wide and urban water issues and present ways of identifying and evaluating alternatives for addressing multiple-purpose and multi-objective water quantity and quality management challenges. Reinforced with cases studies, exercises, and media supplements throughout, the text is ideal for upper-level undergraduate and graduate courses in water resource planning and management as well as for practicing planners and engineers in the field.

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Develop a strong conceptual understanding of the role that quantitative methods play in today's decision-making process. Written for the non-mathematician, this applications-oriented text introduces today's many quantitative methods, how they work, and how decision makers can most effectively apply and interpret data. A strong managerial orientation motivates while actual examples illustrate situations where quantitative methods make a difference in decision making. A strong Problem-Scenario Approach helps you understand and apply mathematical

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concepts. Important Notice:  
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the product description or the  
product text may not be available  
in the ebook version.

Applied Technologies

15th International Conference,  
BIC-TA 2020, Qingdao, China,  
October 23-25, 2020, Revised  
Selected Papers

Modeling, Assessment, and  
Optimization of Energy Systems

Modeling Languages in

Mathematical Optimization

Urban Transport and the

Environment in the 21st Century

Computational Science and Its

Applications - ICCSA 2006

Quantitative Methods for

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## Business (Book Only)

*This volume constitutes the refereed proceedings of the Third International Conference on Applied Technologies, ICAT 2021, held in Quito, Ecuador, in October 2021. The 40 papers were carefully reviewed and selected from 201 submissions. The papers are organized according to the following topics: communication; computing; e-government and e-participation; e-learning; electronics; general track; intelligent systems; machine vision; security; technology*



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*trends.*

*This volume presents a unique combination of modeling and solving real world optimization problems. It is the only book which treats systematically the major modeling languages and systems used to solve mathematical optimization problems, and it also provides a useful overview and orientation of today's modeling languages in mathematical optimization. It demonstrates the strengths and characteristic features of such languages and*

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*provides a bridge for researchers, practitioners and students into a new world: solving real optimization problems with the most advances modeling systems.*

*Electrical power systems are complex networks that include a set of electrical components that allow distributing the electricity generated in the conventional and renewable power plants to distribution systems so it can be received by final consumers (businesses and homes). In practice, power system management requires*

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*solving different design, operation, and control problems. Bearing in mind that computers are used to solve these complex optimization problems, this book includes some recent contributions to this field that cover a large variety of problems. More specifically, the book includes contributions about topics such as controllers for the frequency response of microgrids, post-contingency overflow analysis, line overloads after line and generation contingences, power*

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*quality disturbances,  
earthing system touch  
voltages, security-  
constrained optimal power  
flow, voltage regulation  
planning, intermittent  
generation in power  
systems, location of  
partial discharge source  
in gas-insulated  
switchgear, electric  
vehicle charging stations,  
optimal power flow with  
photovoltaic generation,  
hydroelectric plant  
location selection, cold-  
thermal-electric  
integrated energy systems,  
high-efficiency resonant  
devices for microwave*

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*power generation, security-constrained unit commitment, and economic dispatch problems.*

*This book brings together some of the latest thinking by leading experts from around the world on integrating systems and strategies in production management and related issues that are relevant for making production into a competitive resource for the firm. This book is composed of five parts, each focused on a specific theme: Linking systems and strategies; Strategic*

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*operations management;  
IS/IT applications in the  
value chain; Modelling and  
simulation; Improving  
operations.*

*Problems and Applications  
Proceedings of the Second  
International Symposium on  
Simulation and Process  
Modelling (ISSPM 2020)  
SocProS 2013, Volume 2  
Revisiting Supply Chain  
Risk*

*A Practical Approach  
Introduction to  
Optimization Analysis in  
Hydrosystem Engineering  
Proceedings of the 16th  
International Conference  
SoMeT\_17*

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This book presents new vision of regional de-carbonization with concrete scheme design and substantial quantitative demonstration from original interdisciplinary studies. It provides new horizon for not only climate change, environmental conservation but also for international cooperation and peace in East Asia. The chapters introduce diverse low carbon society principles from local to global level with best practices integrating technology evolution and social innovation. While the book is designated for academics and the ultimate goal is to facilitate

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international climate regime making and environmental cooperation, local government and international organizations (United Nations, World Bank, and others) officers, researchers, international NGO/NPOs, consultants, students (particularly those studying environmental policy studies or international relationships), as well as reporters will find this book useful in broadening their understanding of low-carbon development in East Asia.

Sustainable Design through  
Process Integration:  
Fundamentals and



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Applications to Industrial Pollution Prevention, Resource Conservation, and Profitability Enhancement, Second Edition, is an important textbook that provides authoritative, comprehensive, and easy-to-follow coverage of the fundamental concepts and practical techniques on the use of process integration to maximize the efficiency and sustainability of industrial processes. The book is ideal for adoption in process design and sustainability courses. It is also a valuable guidebook to process, chemical, and environmental engineers who need to improve the design,

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operation, performance, and sustainability of industrial plants. The book covers pressing and high growth topics, including benchmarking process performance, identifying root causes of problems and opportunities for improvement, designing integrated solutions, enhancing profitability, conserving natural resources, and preventing pollution. Written by one of the world's foremost authorities in integrated process design and sustainability, the new edition contains new chapters and updated materials on various aspects

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of process integration and sustainable design. The new edition is also packed with numerous new examples and industrial applications. Allows the reader to methodically develop rigorous targets that benchmark the performance of industrial processes then develop cost-effective implementations Contains state-of-the-art process integration and improvement approaches and techniques including graphical, algebraic, and mathematical methods Covers topics and applications that include profitability enhancement, mass and energy conservation, synthesis of

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innovative processes, retrofitting of existing systems, design and assessment of water, energy, and water-energy-nexus systems, and reconciliation of various sustainability objectives

To achieve environmental sustainability in industrial plants, resource conservation activities such as material recovery have begun incorporating process integration techniques for reusing and recycling water, utility gases, solvents, and solid waste. Process Integration for Resource Conservation presents state-of-the-art, cost-effective techniques

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The proceedings of SocProS 2013 serve as an academic bonanza for scientists and researchers working in the field of Soft Computing. This book contains theoretical as well as practical aspects of Soft Computing, an umbrella term for techniques like fuzzy logic, neural networks and evolutionary algorithms, swarm intelligence algorithms etc. This book will be beneficial for the young as well as experienced researchers dealing with complex and intricate real world problems for which finding a solution by traditional methods is very difficult. The different

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areas covered in the proceedings are: Image Processing, Cryptanalysis, Supply Chain Management, Newly Proposed Nature Inspired Algorithms, Optimization, Problems related to Medical and Health Care, Networking etc. An Introduction to Management Science: Quantitative Approach Proceedings of the 2nd International Conference on Intelligent Computing and Optimization 2019 (ICO 2019) Natural Gas Processing from Midstream to Downstream Quantitative Methods for Business Optimization Modelling Proceedings of the 2014

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International Conference on Control Engineering and Information Systems (ICCEIS 2014, Yueyang, Hunan, China, 20-22 June 2014).

Bio-Inspired Computing:

Theories and Applications

**Software is an essential enabler for science and the new economy.**

It creates new markets and directions for a more reliable, flexible and robust society and empowers the exploration of our world in ever more depth, but it often falls short of our expectations. Current software methodologies, tools, and techniques are still neither robust nor reliable enough for the constantly evolving market, and

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many promising approaches have so far failed to deliver the solutions required. This book presents the keynote 'Engineering Cyber-Physical Systems' and 64 peer-reviewed papers from the 16th International Conference on New Trends in Intelligent Software Methodology Tools, and Techniques, (SoMeT\_17), held in Kitakyushu, Japan, in September 2017, which brought together researchers and practitioners to share original research results and practical development experience in software science and related new technologies. The aim of the SoMeT conferences is to capture the



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essence of the new state-of-the-art in software science and its supporting technology and to identify the challenges such technology will have to master. The book explores new trends and theories which illuminate the direction of developments in this field, and will be of interest to anyone whose work involves software science and its integration into tomorrow's global information society.

Written with the non-mathematician in mind,  
QUANTITATIVE METHODS  
FOR BUSINESS, 13E by award-winning authors Anderson, Sweeney, Williams, Camm,

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Cochran, Fry, and Ohlmann equips your students with a strong conceptual understanding of the critical role that quantitative methods play in today's decision-making process. This applications-oriented text clearly introduces current quantitative methods, how they work, and how savvy decision makers can most effectively apply and interpret data. A strong managerial orientation motivates learning by weaving relevant, real-world examples throughout. The authors' hallmark Problem-Scenario Approach helps readers understand and apply mathematical concepts and

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techniques. The 13th Edition includes a more holistic description of how variable activity times affect the probability of a project meeting a deadline. In addition, numerous all-new Q.M. in Action vignettes, homework problems, and end-of-chapter cases are included. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. This book presents the recent advances and developments in control, automation, robotics and measuring techniques. It presents contributions of top experts in the fields, focused on both theory and

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industrial practice. The particular chapters present a deep analysis of a specific technical problem which is in general followed by a numerical analysis and simulation and results of an implementation for the solution of a real world problem. The book presents the results of the International Conference AUTOMATION 2014 held 26 - 28 March, 2014 in Warsaw, Poland on Automation – Innovations and Future Perspectives The presented theoretical results, practical solutions and guidelines will be useful for both researchers working in the area of engineering sciences and for practitioners

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solving industrial problems. The continuing requirement for better urban transport systems and the need for a healthier environment have led to an increased level of research around the world. This is reflected in the proceedings presented at the well-established International Conference on Urban Transport and the Environment in the 21st Century. This volume presents the steady growth in research into urban transport and will be of particular interest to engineers, scientists and managers working in industry, universities, research organizations and government; involved in the planning and

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management of urban transportation systems and transport policy. The variety of topics covered are of primary importance for analysing the complex interaction in the urban transport environment and for establishing action strategies for transport and traffic problems.

Featured topics include:

Transport Modelling and Simulation; Public Transport Systems; Traffic Integration and Control; Infrastructure and Maintenance; Transport Sustainability; Environment and Ecological Aspects; Air and Noise Pollution; Energy and Transport Fuels; Transport Security and

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Safety; Road and Parking Pricing;  
Economic and Social Impact;  
Land Use and Transport  
Integration; Advanced Transport  
Systems; Transportation Demand  
Analysis.

East Asian Low-Carbon  
Community

Pt. 3: International Conference,  
Glasgow, UK, May 8-11, 2006,  
Proceedings

Advances in Simulation and  
Process Modelling

Proceedings of the International  
Conference on Soft Computing for  
Problem Solving (SocProS 2011)  
December 20-22, 2011

Aimms Optimization Modeling  
Modern Industrial IoT, Big Data

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and Supply Chain

International IFIP TC 5, WG 5.7  
Conference on Advances in  
Production Management Systems  
(APMS 2007), September 17-19,  
Linköping, Sweden

This book presents the outcomes of  
the second edition of the  
International Conference on  
Intelligent Computing and  
Optimization (ICO) – ICO 2019,  
which took place on October 3–4,  
2019, in Koh Samui, Thailand.

Bringing together research  
scholars, experts, and investigators  
from around the globe, the  
conference provided a platform to  
share novel research findings,  
recent advances and innovative  
applications in the field. Discussing



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the need for smart disciplinary processes embedded into interdisciplinary collaborations in the context of meeting the growing global populations ' requirements, such as food and health care, the book highlights the role of intelligent computation and optimization as key technologies in decision-making processes and in providing cutting edge solutions to real-world problems.

The objective is to provide the latest developments in the area of soft computing. These are the cutting edge technologies that have immense application in various fields. All the papers will undergo the peer review process to maintain the quality of work.

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A comprehensive review of the current status and challenges for natural gas and shale gas production, treatment and monetization technologies Natural Gas Processing from Midstream to Downstream presents an international perspective on the production and monetization of shale gas and natural gas. The authors review techno-economic assessments of the midstream and downstream natural gas processing technologies. Comprehensive in scope, the text offers insight into the current status and the challenges facing the advancement of the midstream natural gas treatments. Treatments covered include gas sweetening processes,

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sulfur recovery units, gas dehydration and natural gas pipeline transportation. The authors highlight the downstream processes including physical treatment and chemical conversion of both direct and indirect conversion. The book also contains an important overview of natural gas monetization processes and the potential for shale gas to play a role in the future of the energy market, specifically for the production of ultra-clean fuels and value-added chemicals. This vital resource: Provides fundamental chemical engineering aspects of natural gas technologies Covers topics related to upstream, midstream and downstream

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natural gas treatment and processing Contains well-integrated coverage of several technologies and processes for treatment and production of natural gas Highlights the economic factors and risks facing the monetization technologies Discusses supply chain, environmental and safety issues associated with the emerging shale gas industry Identifies future trends in educational and research opportunities, directions and emerging opportunities in natural gas monetization Includes contributions from leading researchers in academia and industry Written for Industrial scientists, academic researchers

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and government agencies working on developing and sustaining state-of-the-art technologies in gas and fuels production and processing, *Natural Gas Processing from Midstream to Downstream* provides a broad overview of the current status and challenges for natural gas production, treatment and monetization technologies. This book presents the basics of linear and nonlinear optimization analysis for both single and multi-objective problems in hydrosystem engineering. The book includes several examples with various levels of complexity in different fields of water resources engineering. The examples are solved step by step to assist the

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reader and to make it easier to understand the concepts. In addition, the latest tools and methods are presented to help students, researchers, engineers and water managers to properly conceptualize and formulate resource allocation problems, and to deal with the complexity of constraints in water demand and available supplies in an appropriate way.

Sustainable Design Through  
Process Integration

Ubiquitous Intelligence and  
Computing

Data Science for Business and  
Decision Making

Volume 1

Intelligent Computing and

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Optimization

Advances in Production

Management Systems

Optimization in Chemical

Engineering

Control Engineering and Information

Systems contains the papers

presented at the 2014 International

Conference on Control Engineering

and Information Systems (ICCEIS

2014, Yueyang, Hunan, China, 20-22

June 2014). All major aspects of the

theory and applications of control

engineering and information systems

are addressed, including: –

Intelligent systems – Teaching cases

– Pattern recognition – Industry

application – Machine learning –

Systems science and systems

engineering – Data mining –

Optimization – Business process

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management – Evolution of public sector ICT – IS economics – IS security and privacy – Personal data markets – Wireless ad hoc and sensor networks – Database and system security – Application of spatial information system – Other related areas Control Engineering and Information Systems provides a valuable source of information for scholars, researchers and academics in control engineering and information systems.

This book is a collection of selected papers presented at the First International Conference on Industrial IoT, Big Data and Supply Chain (IIoTBDSC), held as an online conference due to COVID-19 (initially to be held in Macao, Special Administration Region (SAR) of China), during September 15–17,



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2020. It includes novel and innovative work from experts, practitioners, scientists and decision-makers from academia and industry. It brings multi-disciplines together on IIoT, data science, cloud computing, software engineering approaches to design, development, testing and quality of products and services.

Our everyday life is unthinkable without optimization. We try to minimize our effort and to maximize the achieved profit. Many real world and industrial problems arising in engineering, economics, medicine and other domains can be formulated as optimization tasks. This volume is a comprehensive collection of extended contributions from the Workshop on Computational Optimization 2013. It presents recent advances in computational

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optimization. The volume includes important real life problems like parameter settings for controlling processes in bioreactor, resource constrained project scheduling, problems arising in transport services, error correcting codes, optimal system performance and energy consumption and so on. It shows how to develop algorithms for them based on new metaheuristic methods like evolutionary computation, ant colony optimization, constrain programming and others.

This book is a printed edition of the Special Issue "Optimization in Control Applications" that was published in MCA

An Introduction to Methods, Models,  
and Applications  
Process Integration for Resource  
Conservation

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Recent Advances in Automation,  
Robotics and Measuring Techniques  
Results of the Workshop on  
Computational Optimization WCO  
2013

Optimization with LINGO-18  
10th European Conference, EvoCOP  
2010, Istanbul, Turkey, April 7-9,  
2010, Proceedings

Optimization in Control Applications

**This volume constitutes the revised selected papers of the 15th International Conference on Bio-inspired Computing: Theories and Applications, BIC-TA 2020, held in Qingdao, China, in October 2020. The 43 full papers presented in both volumes were selected from 109 submissions. The papers are organized according to the**

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**topical headings: evolutionary computation and swarm intelligence; neural networks and machine learning; DNA computing and membrane computing.**

**This book presents fundamental concepts of optimization problems and its real-world applications in various fields. The core concepts of optimization, formulations and solution procedures of various real-world problems are provided in an easy-to-read manner. The unique feature of this book is that it presents unified knowledge of the modelling of real-world decision-making**

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**problems and provides the solution procedure using the appropriate optimization techniques. The book will help students, researchers, and faculty members to understand the need for optimization techniques for obtaining optimal solution for the decision-making problems. It provides a sound knowledge of modelling of real-world problems using optimization techniques. It is a valuable compendium of several optimization techniques for solving real-world application problems using optimization software LINGO. The book is useful for academicians,**

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**practitioners, students and researchers in the field of OR. It is written in simple language with a detailed explanation of the core concepts of optimization techniques. Readers of this book will understand the formulation of real-world problems and their solution procedures obtained using the appropriate optimization techniques. This book gives an overview of various aspects of climate change by integrating global climate models, downscaling approaches, and hydrological models. It also covers themes that help in understanding climate change in a holistic**

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**manner. The book includes worked-out examples, revision questions, exercise problems, and case studies, making it relevant for use as a textbook in graduate courses and professional development programs. The book will serve well researchers, students, as well as professionals working in the area of hydroclimatology.**

**The five-volume set LNCS 3980-3984 constitutes the refereed proceedings of the International Conference on Computational Science and Its Applications, ICCSA 2006. The volumes present a total of 664 papers organized according to**

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**the five major conference themes: computational methods, algorithms and applications high performance technical computing and networks advanced and emerging applications geometric modelling, graphics and visualization information systems and information technologies. This is Part III. Fundamentals and Applications to Industrial Pollution Prevention, Resource Conservation, and Profitability Enhancement**

**Third International Conference, ICAT 2021, Quito, Ecuador, October 27-29, 2021,**



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## **Proceedings Control Engineering and Information Systems Optimization Methods Applied to Power Systems II 8th International Conference, UIC 2011, Banff, Canada, September 2-4, 2011, Proceedings New Trends in Intelligent Software Methodologies, Tools and Techniques**

*Modelling, Assessment, and Optimization of Energy Systems provides comprehensive methodologies for the thermal modelling of energy systems based on thermodynamic, exergoeconomic and exergoenvironmental approaches. It provides advanced analytical approaches, assessment*

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*criteria and the methodologies to obtain analytical expressions from the experimental data. The concept of single-objective and multi-objective optimization with application to energy systems is provided, along with decision-making tools for multi-objective problems, multi-criteria problems, for simplifying the optimization of large energy systems, and for exergoeconomic improvement integrated with a simulator EIS method. This book provides a comprehensive methodology for modeling, assessment, improvement of any energy system with guidance, and practical examples that provide detailed insights for energy engineering, mechanical engineering, chemical engineering and researchers in the field of analysis and optimization of energy*

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*systems. Offers comprehensive analytical tools for the modeling and simulation of energy systems with applications for decision-making tools Provides methodologies to obtain analytical models of energy systems for experimental data Covers decision-making tools in multi-objective problems This book gathers the selected papers from the Second International Symposium on Simulation and Process Modelling (ISSPM 2020), which was held online on August 29-30, 2020, due to COVID-19 pandemic. The Symposium provides a forum in virtual presentation for scholars, researchers and practitioners who are interested in the modelling and simulation of business processes, production and industrial processes, service and administrative*

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*processes, and public sector processes to develop theory and practice of simulation and process modelling.*

*In this book, optimization of chemical processes is performed using both classical and advanced algorithms.*

*Optimization Modelling A Practical Approach*  
CRC Press

*Impact of Climate Change on Water Resources*

*Realizing a Sustainable Decarbonized Society from Technology and Social Systems*

*Building and Solving Mathematical Programming Models*

*Evolutionary Computation in Combinatorial Optimization*

*Proceedings of the IIoTBDSC 2020*  
*50 Practical Examples*

*Water Resource Systems Planning and*

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*Management*

## **The AIMMS Optimization**

**Modeling book provides not only an introduction to modeling but also a suite of worked examples. It is aimed at users who are new to modeling and those who have limited modeling experience.**

**Both the basic concepts of optimization modeling and more advanced modeling techniques are discussed. The Optimization Modeling book is AIMMS version independent.**

**Data Science for Business and Decision Making covers both statistics and operations research while most competing textbooks focus on one or the other. As a result, the book more clearly defines the principles of business analytics for those who want to**

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**apply quantitative methods in their work. Its emphasis reflects the importance of regression, optimization and simulation for practitioners of business analytics. Each chapter uses a didactic format that is followed by exercises and answers. Freely-accessible datasets enable students and professionals to work with Excel, Stata Statistical Software®, and IBM SPSS Statistics Software®. Combines statistics and operations research modeling to teach the principles of business analytics Written for students who want to apply statistics, optimization and multivariate modeling to gain competitive advantages in business Shows how powerful software packages, such as SPSS**

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**and Stata, can create graphical and numerical outputs**

**The book consists of chapters based on selected papers of international conference „Power, Control and Optimization 2012“, held in Las Vegas, USA. Readers can find interesting chapters discussing various topics from the field of power control, its distribution and related fields. Book discusses topics like energy consumption impacted by climate, mathematical modeling of the influence of thermal power plant on the aquatic environment, investigation of cost reduction in residential electricity bill using electric vehicle at peak times or allocation and size evaluation of distributed generation using ANN**

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**model and others. Chapter authors are to the best of our knowledge the originators or closely related to the originators of presented ideas and its applications. Hence, this book certainly is one of the few books discussing the benefit from intersection of those modern and fruitful scientific fields of research with very tight and deep impact on real life and industry. This book is devoted to the studies of common and related subjects in intensive research fields of power technologies. For these reasons, we believe that this book will be useful for scientists and engineers working in the above-mentioned fields of research and applications. This book presents the**



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**construction and resolution of 50 practical optimization problems and covers an exceptionally wide range, including games-associated problems (Unblock Me, Sudokus), logistical problems, and problems concerning plant distribution, production, operations scheduling, management and resource allocation. The problems are divided into 5 difficulty levels. Problems in the first few levels are focused on learning the model construction methodology, while those in the last level include complex optimization environments. For each problem solution, the specific steps are illustrated, promoting reader comprehension. In addition, all**

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**the models are implemented in an optimization library, LINGO, their solutions have been analyzed and their correct construction has been verified. The book also includes a simple guide to implementing models in LINGO in a straightforward manner and in any input data format (text files, spreadsheets or databases). As an ideal companion to the author's previously published work Modelling in Mathematical Programming, the book is intended as a basic tool for students of operations research, and for researchers in any advanced area involving mathematical programming.**

**Urban Transport XIII  
Power, Control and Optimization**

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### **Proceedings of the Third International Conference on Soft Computing for Problem Solving With Modeling Techniques and Case Studies Recent Advances in Computational Optimization An Introduction to Management Science: Quantitative Approaches to Decision Making**

This book constitutes the refereed proceedings of the 10th European Conference on Evolutionary Computation in Combinatorial Optimization, EvoCOP 2010, held in Istanbul, Turkey, in April 2010. The 24 revised full papers presented were carefully reviewed and selected from 69 submissions. The papers present the latest research and discuss current

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developments and applications in metaheuristics - a paradigm to effectively solve difficult combinatorial optimization problems appearing in various industrial, economical, and scientific domains. Prominent examples of metaheuristics are evolutionary algorithms, simulated annealing, tabu search, scatter search, memetic algorithms, variable neighborhood search, iterated local search, greedy randomized adaptive search procedures, estimation of distribution algorithms and ant colony optimization.

Although a useful and important tool, the potential of mathematical modelling for decision making is

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often neglected. Considered an art by many and weird science by some, modelling is not as widely appreciated in problem solving and decision making as perhaps it should be. And although many operations research, management science, and optimization books touch on modelling techniques, the short shrift they usually get in coverage is reflected in their minimal application to problems in the real world. Illustrating the important influence of modelling on the decision making process, *Optimization Modelling: A Practical Approach* helps you come to grips with a wide range of modelling techniques. Highlighting the modelling aspects of optimization

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problems, the authors present the techniques in a clear and straightforward manner, illustrated by examples. They provide and analyze the formulation and modelling of a number of well-known theoretical and practical problems and touch on solution approaches. The book demonstrates the use of optimization packages through the solution of various mathematical models and provides an interpretation of some of those solutions. It presents the practical aspects and difficulties of problem solving and solution implementation and studies a number of practical problems. The book also discusses the use of available software

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packages in solving optimization models without going into difficult mathematical details and complex solution methodologies. The emphasis on modelling techniques rather than solution algorithms sets this book apart. It is a single source for a wide range of methods, classic theoretical and practical problems, data collection and input preparation, the use of different optimization software, and practical issues of modelling, model solving, and implementation. The authors draw directly from their experience to provide lessons learned when applying modelling techniques to practical problem solving and implementation difficulties. This book offers a bridge between

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our current understanding of supply chain risk in practice and theory, and the monumental shifts caused by the emergence of the fourth industrial revolution. Supply chain risk and its management have experienced significant attention in scholarship and practice over the past twenty years. Our understanding of supply chain risk and its many facets, such as uncertainty and vulnerability, has expanded beyond utilizing approaches such as deploying inventory to buffer the initial effects of disruptions. Even with our increased knowledge of supply chain risk, being in the era of lean supply chain practices, digitally managed global supply chains, and



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closely interconnected networks, firms are exposed as ever to supply chain uncertainties that can damage, or even destroy, their ability to compete in the marketplace. The book acknowledges the criticality of big data analytics in Supply Chain Risk Management (SCRM) processes and provides appropriate tools and approaches for creating robust SCRM processes. Revisiting Supply Chain Risk presents a state-of-the-art look at SCRM through current research and philosophical thought. It is divided into six sections that highlight established themes, as well as provide new insights to developing areas of inquiry and contexts on the topic.

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Section 1 examines the first step in managing supply chain risk, risk assessment. The chapters in Section 2 encompass resiliency in supply chains, while Section 3 looks at relational and behavioral perspectives from varying units of analysis including consortiums, teams and decision makers. Section 4 focuses on examining supply chain risk in the contexts of sustainability and innovation. Section 5 provides insight on emerging typologies and taxonomies for classifying supply chain risk. The book concludes with Section 6, featuring illustrative case studies as real-world examples in assessing and managing supply chain risk.

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