
Optimization Modeling With Lingo

Google Code

Digital Technologies and Applications
Modern Industrial IoT, Big Data and Supply Chain
Multiagent based Supply Chain Management
Optimization Modeling with Spreadsheets
Automation 2018
Building and Solving Mathematical Programming Models
Nature-Inspired Computing for Smart Application Design
Business Analytics Principles, Concepts, and Applications with SAS
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Psychological and Behavioral Examinations in Cyber Security
Computational Intelligence-based Optimization Algorithms
Modeling and Optimization in Space Engineering
Encyclopedia of Operations Research and Management Science
Informatics, Networking and Intelligent Computing
Advanced Perspectives on Global Industry Transitions and Business Opportunities
Practical Goal Programming
Business Applications of Operations Research
Proceedings of IncoME-V & CEPE Net-2020
Modeling Risk
Supply Chain Configuration
Recent Advances in Transportation Systems Engineering and Management—Volume 2
Wireless Sensor Networks
Proceedings of Sixth International Conference on Soft Computing for Problem Solving
Data Science for Business and Decision Making
Information Systems Architecture and Technology: Proceedings of 37th International Conference on Information Systems Architecture and Technology - ISAT 2016 - Part I
Maritime Logistics in the Global Economy
Impact of Climate Change on Water Resources
High-Performance Materials and Engineered Chemistry
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Optimization Modeling with Lingo
Information Logistics. Decentralized Approaches of Information Allocation in Information Exchange Networks
Kalman Filtering Techniques for Radar Tracking
Application of Intelligent Systems in Multi-modal Information Analytics
Applied Technologies
Business Analytics Principles, Concepts, and Applications
Ubiquitous Intelligence and Computing
Modeling Languages in Mathematical Optimization

Integrated Water-resources Management in a River-basin Context
Natural Gas Processing from Midstream to Downstream
Sustainable Utility Systems

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WERNER MCDANIEL

Digital Technologies and Applications CRC Press
This volume presents a selection of advanced case studies that address a substantial range of issues and challenges arising in space engineering. The contributing authors are well-recognized researchers and practitioners in space engineering and in applied optimization. The key mathematical modeling and numerical solution aspects of each application case study are presented in sufficient detail. Classic and more recent space engineering problems – including cargo accommodation and object placement, flight control of satellites, integrated design and trajectory optimization, interplanetary transfers with deep space manoeuvres, low energy transfers, magnetic cleanliness modeling, propulsion system design, sensor system placement, systems engineering, space traffic logistics, and

trajectory optimization – are discussed. Novel points of view related to computational global optimization and optimal control, and to multidisciplinary design optimization are also given proper emphasis. A particular attention is paid also to scenarios expected in the context of future interplanetary explorations. Modeling and Optimization in Space Engineering will benefit researchers and practitioners working on space engineering applications. Academics, graduate and post-graduate students in the fields of aerospace and other engineering, applied mathematics, operations research and optimal control will also find the book useful, since it discusses a range of advanced model development and solution techniques and tools in the context of real-world applications and new challenges.

Modern Industrial IoT, Big Data and Supply Chain
Springer

This book provides comprehensive coverage of the latest advances and trends in information

technology, science and engineering. Specifically, it addresses a number of broad themes, including multi-modal informatics, data mining, agent-based and multi-agent systems for health and education informatics, which inspire the development of intelligent information technologies. The contributions cover a wide range of topics such as AI applications and innovations in health and education informatics; data and knowledge management; multi-modal application management; and web/social media mining for multi-modal informatics. Outlining promising future research directions, the book is a valuable resource for students, researchers and professionals, and a useful reference guide for newcomers to the field. This book is a compilation of the papers presented in the 2021 International Conference on Multi-modal Information Analytics, held in Huhehaote, China, on April 23–24, 2021.

Multiagent based Supply Chain Management Springer

Science & Business Media
 An updated guide to risk analysis and modeling
 Although risk was once seen as something that was both unpredictable and uncontrollable, the evolution of risk analysis tools and theories has changed the way we look at this important business element. In the Second Edition of *Analyzing and Modeling Risk*, expert Dr. Johnathan Mun provides up-to-date coverage of risk analysis as it is applied within the realms of business risk analysis and offers an intuitive feel of what risk looks like, as well as the different ways of quantifying it. This Second Edition provides professionals in all industries a more comprehensive guide on such key concepts as risk and return, the fundamentals of model building, Monte Carlo simulation, forecasting, time-series and regression analysis, optimization, real options, and more. Includes new examples, questions, and exercises as well as updates using Excel 2007 Book supported by author's proprietary risk analysis software found on the companion CD-ROM
 Offers both a qualitative and quantitative description of risk Filled

with in-depth insights and practical advice, this reliable resource covers all of the essential tools and techniques that risk managers need to successfully conduct risk analysis. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Optimization Modeling with Spreadsheets

Springer Nature
 This four volume set of books constitutes the proceedings of the 2016 37th International Conference Information Systems Architecture and Technology (ISAT), or ISAT 2016 for short, held on September 18-20, 2016 in Karpacz, Poland. The conference was organized by the Department of Management Systems and the Department of Computer Science, Wrocław University of Science and Technology, Poland. The papers included in the proceedings have been subject to a thorough review process by highly qualified peer reviewers. The accepted papers have been grouped into four parts: Part I—addressing topics including, but not limited to, systems analysis and modeling, methods for managing complex planning

environment and insights from Big Data research projects. Part II—discussing about topics including, but not limited to, Web systems, computer networks, distributed computing, and multi-agent systems and Internet of Things. Part III—discussing topics including, but not limited to, mobile and Service Oriented Architecture systems, high performance computing, cloud computing, knowledge discovery, data mining and knowledge based management. Part IV—dealing with topics including, but not limited to, finance, logistics and market problems, and artificial intelligence methods.
Automation 2018 CRC Press
 Computational intelligence-based optimization methods, also known as metaheuristic optimization algorithms, are a popular topic in mathematical programming. These methods have bridged the gap between various approaches and created a new school of thought to solve real-world optimization problems. In this book, we have selected some of the most

effective and renowned algorithms in the literature. These algorithms are not only practical but also provide thought-provoking theoretical ideas to help readers understand how they solve optimization problems. Each chapter includes a brief review of the algorithm's background and the fields it has been used in. Additionally, Python code is provided for all algorithms at the end of each chapter, making this book a valuable resource for beginner and intermediate programmers looking to understand these algorithms.

Building and Solving Mathematical Programming Models

Springer Science & Business Media

Operations Research is a bouquet of mathematical techniques which have evolved over the last six decades, to improve the process of business decision making.

Operations Research offers tools to optimize and find the best solutions to myriad decisions that managers have to take in their day to day operations or while carrying out strategic planning. Today, with the advent of operations

research software, these tools can be applied by managers even without any knowledge of the mathematical techniques that underlie the solution procedures. The book starts with a brief introduction to various tools of operations research, such as linear programming, integer programming, multi-objective programming, queuing theory and network theory together with simple examples in each of the areas. Another introductory chapter on handling the operations research software, along with examples is also provided. The book intends to make the readers aware of the power and potential of operations research in addressing decision making in areas of operations, supply chain, financial and marketing management. The approach of this book is to demonstrate the solution to specific problems in these areas using operations research techniques and software. The reader is encouraged to use the accompanying software models to solve these problems, using detailed do-it-yourself instructions. The intended outcome for readers of this book will be gaining

familiarity and an intuitive understanding of the various tools of operations research and their applications to various business situations. It is expected that this will give the reader the ability and confidence to devise models for their own business needs.

Nature-Inspired Computing for Smart Application Design

Springer Nature

This book focuses primarily on the nature-inspired approach for designing smart applications. It includes several implementation paradigms such as design and path planning of wireless network, security mechanism and implementation for dynamic as well as static nodes, learning method of cloud computing, data exploration and management, data analysis and optimization, decision taking in conflicting environment, etc. The book fundamentally highlights the recent research advancements in the field of engineering and science.

Business Analytics Principles, Concepts, and Applications with SAS CRC Press

This volume brings together innovative

research, new concepts, and novel developments in the application of new tools for chemical and materials engineers. It contains significant research, reporting new methodologies and important applications in the fields of chemical engineering as well as the latest coverage of chemical databases and the development of new methods and efficient approaches for chemists. This authoritative reference source provides the latest scholarly research on the use of applied concepts to enhance the current trends and productivity in chemical engineering. Highlighting theoretical foundations, real-world cases, and future directions, this book is ideally designed for researchers, practitioners, professionals, and students of materials chemistry and chemical engineering. The volume explains and discusses new theories and presents case studies concerning material and chemical engineering. The book is divided into several sections, covering: Advanced Materials, Chemoinformatics, Computational Chemistry, and Smart Technologies Analytical and

Experimental Techniques Informed Urban Transport Systems Springer Nature

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 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.

Psychological and Behavioral Examinations in Cyber Security Springer Nature

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, 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.

Computational Intelligence-based Optimization Algorithms Springer Nature

As more companies shift their operations between countries to take advantage of lower costs and greater profit, the global market continues to change rapidly, resulting in global hypercompetition that can be detrimental to a business. Firms must remain updated with the latest research as they navigate cultural differences, communication challenges, and inconsistent standards in order to thrive. *Advanced Perspectives on Global Industry Transitions and Business Opportunities* is an essential, comprehensive reference book that explores the current global business environment and the challenges that have arisen due to contemporary

globalization and the resulting global hypercompetition. With a broad scope, the book covers the implications of industry transitions from small and medium-sized companies to multinational businesses and large enterprises and discusses opportunities for both born global and born-again global firms. Featuring topics that deal with innovation, digitalization, disruptive technologies, and international collaboration, this is an ideal source for executives, managers, entrepreneurs, global businesses and businesses looking to transition to the global market, academicians, researchers, and students.

Modeling and Optimization in Space Engineering ibidem-Verlag / ibidem Press

Cyber security has become a topic of concern over the past decade. As many individual and organizational activities continue to evolve digitally, it is important to examine the psychological and behavioral aspects of cyber security.

Psychological and Behavioral Examinations in Cyber Security is a

critical scholarly resource that examines the relationship between human behavior and interaction and cyber security. Featuring coverage on a broad range of topics, such as behavioral analysis, cyberpsychology, and online privacy, this book is geared towards IT specialists, administrators, business managers, researchers, and students interested in online decision making in cybersecurity.

Encyclopedia of Operations Research and Management Science Academic Press

The use of modern planning and optimization systems for process synchronization in value networks requires the optimal information exchange between the entities involved. The central focus of Sven Grolik's study is the development of efficient mechanisms for the coordination of information allocation by the example of interconnected transportation marketplaces. Unlike traditional information allocation algorithms, the algorithms developed in his analysis are based on update mechanisms which maintain a weak

consistency of replicated information in the network. Sven Grolik shows that these algorithms enable savings concerning the update costs as well as increase the performance within the network, but at the same time guarantee compliance with quality of service levels concerning the currency of information. The focus of this work is the development of decentralized, online algorithms which make a logically distributed computation possible on the basis of local information. The development of these innovative algorithms is based on approaches of multi-agent system theory as well as distributed simulated annealing techniques.

Informatics, Networking and Intelligent Computing CRC Press

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

Advanced Perspectives on Global Industry Transitions and Business Opportunities IGI Global

Practical Goal Programming is intended to allow academics and practitioners to be able to build effective goal programming models, to detail the current state of the art, and to lay the foundation for its future development and continued application to new and varied fields. Suitable as both a text and reference, its nine chapters first provide a brief history, fundamental definitions, and underlying philosophies, and then detail the goal programming variants and define them algebraically. Chapter 3 details the step-by-step formulation of the basic goal programming model, and Chapter 4 explores more advanced modeling issues and highlights

some recently proposed extensions. Chapter 5 then details the solution methodologies of goal programming, concentrating on computerized solution by the Excel Solver and LINGO packages for each of the three main variants, and includes a discussion of the viability of the use of specialized goal programming packages. Chapter 6 discusses the linkages between Pareto Efficiency and goal programming. Chapters 3 to 6 are supported by a set of ten exercises, and an Excel spreadsheet giving the basic solution of each example is available at an accompanying website. Chapter 7 details the current state of the art in terms of the integration of goal programming with other techniques, and the text concludes with two case studies which were chosen to demonstrate the application of goal programming in practice and to illustrate the principles developed in Chapters 1 to 7. Chapter 8 details an application in healthcare, and Chapter 9 describes applications in portfolio selection.

Practical Goal Programming Springer Nature

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 trends.

Business Applications of Operations Research Springer Nature

This book provides a thorough guidance on maximizing the performance of utility systems in terms of sustainability. It covers general structure, typical components and efficiency trends, and applications such as top-level analysis for steam pricing and selection of processes for improved heat integration. Examples are provided to illustrate the discussed models and methods to give sufficient learning experience for the reader.

Proceedings of InCoME-V & CEPE Net-2020 BoD - Books on Demand

Reflects the latest applied research and features

state-of-the-art software for building and solving spreadsheet optimization models Thoroughly updated to reflect the latest topical and technical advances in the field, *Optimization Modeling with Spreadsheets, Second Edition* continues to focus on solving real-world optimization problems through the creation of mathematical models and the use of spreadsheets to represent and analyze those models. Developed and extensively classroom-tested by the author, the book features a systematic approach that equips readers with the skills to apply optimization tools effectively without the need to rely on specialized algorithms. This new edition uses the powerful software package Risk Solver Platform (RSP) for optimization, including its Evolutionary Solver, which employs many recently developed ideas for heuristic programming. The author provides expanded coverage of integer programming and discusses linear and nonlinear programming using a systematic approach that emphasizes the use of spreadsheet-based optimization tools.

The Second Edition also features: Classifications for the various problem types, providing the reader with a broad framework for building and recognizing optimization models Network models that allow for a more general form of mass balance A systematic introduction to Data Envelopment Analysis (DEA) The identification of qualitative patterns in order to meaningfully interpret linear programming solutions An introduction to stochastic programming and the use of RSP to solve problems of this type Additional examples, exercises, and cases have been included throughout, allowing readers to test their comprehension of the material. In addition, a related website features Microsoft Office® Excel files to accompany the figures and data sets in the book. With its accessible and comprehensive presentation, *Optimization Modeling with Spreadsheets, Second Edition* is an excellent book for courses on deterministic models, optimization, and spreadsheet modeling at the upper-undergraduate

and graduate levels. The book can also serve as a reference for researchers, practitioners, and consultants working in business, engineering, operations research, and management science. *Modeling Risk* John Wiley & Sons

The main objective of the 5-day workshop was to present and discuss research being conducted by IWMI and IFPRI in selected river basins in the Asian region with financial support from the ADB through its regional technical assistance mechanism (RETA). The studies conducted by the two centers share some common goals, and encompass work plans and methodologies that are highly complementary and mutually supportive. Supply Chain Configuration Springer Science & Business Media Although a useful and important tool, the potential of mathematical modelling for decision making is 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

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