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Neutrosophic Sets and Systems, vol. 10/2015 J. J. Peng "Neutrosophic Sets and Systems" has been created for publications on advanced studies in neutrosophy, neutrosophic set, neutrosophic logic, neutrosophic probability, neutrosophic statistics that started in 1995 and their applications in any field, such as the neutrosophic structures developed in algebra, geometry, topology, etc.

Linear Integer Programming Elias Munapo 2021-12-06 This book presents the state-of-the-art methods in Linear Integer Programming, including some new algorithms and heuristic methods developed by the authors in recent years. Topics as Characteristic equation (CE), application of CE to bi-objective and multi-objective problems, Binary integer problems, Mixed-integer models, Knapsock models, Complexity reduction, Feasible-space reduction, Random search, Connected graph are also treated.

Optimizing, Innovating, and Capitalizing on Information Systems for Operations Wang, John 2013-02-28 Adapting the development of information systems for operations management is essential for the effectiveness of an organization's business strategy. Optimizing, Innovating, and Capitalizing on Information Systems for Operations presents research on the applications of information systems and its influence on business and operations management. Highlighting case studies, frameworks and methodologies, this book aims to be useful for practitioners and academics in the fields of decision, management, and social sciences.

Centrality in Strategic Transportation Network Design Anne Lange 2019-03-01 Efficient and effective transportation networks are backbones to modern societies. Methodologically, their design has mainly been driven by optimization approaches oftentimes with a strong cost focus. Their strategic planning, however, should go beyond detailed cost analysis and identify other key decision drivers. Transportation network centrality describes the appearance of a network; hence it is crucial for network design. Anne Paul develops a strategic approach to transportation network design by conceptualizing transportation network centrality and relating it to the performance and quality of transportation networks. Consequently, the concept of network centrality serves to support decisions in strategic network design. A practical implementation of this approach is provided, demonstrating its feasibility. Potential readers include scholars and practitioners from logistics, supply chain management, and operational research with an interest in strategic transportation network design.

For All Practical Purposes: Mathematics and Its Applications (U.S.) 2008 By the Consortium for Mathematics and Its Applications (U.S.) The book begins with easy-to-read essays on topics such as the annual report of a professional sports team, how to perfect a basketball free throw, and how mathematics has been used to understand and describe hurricanes. The book is intended for students who need to complete one year of mathematics in high school or college, and for their parents who need to help or advise them. The book's goal is to help students make sense of the mathematics they are learning, to relate it to their prior knowledge, to see its broader applications, and to build a solid foundation for learning more mathematics in the future.

For All Practical Purposes (Paper) COMAP 2008-10-31 By the Consortium for Mathematics and Its Applications

International Conference On Advances In Engineering And Technology Vijayawada The International Association of Engineering and Technology for Skill Development (IAETSD) is a Professional and non-profit conference organizing company devoted to promoting social, economic, and technical advancements around the world by conducting international academic conferences in various Engineering fields around the world. IAETSD organizes multidisciplinary conferences for academics and professionals in the fields of Engineering. In order to strengthen the skill development of the students IAETSD has established. IAETSD is a meeting place where Engineering students can share their views, ideas, can improve their technical knowledge, can develop their skills and for presenting and discussing
recent trends in advanced technologies, new educational environments and innovative technology learning ideas. The intention of IAETSD is to expand the knowledge beyond the boundaries by joining the hands with students, researchers, academics and industrialists etc, to explore the technical knowledge all over the world, to publish proceedings. IAETSD offers opportunities to learning professionals for the exploration of problems from many disciplines of various Engineering fields to discover innovative solutions to implement innovative ideas.

IAETSD aimed to promote upcoming trends in Engineering.

Computing in Engineering and Technology Brijesh Iyer 2019-10-16 The book is a collection of selected high quality research papers presented at the International Conference on Computing in Engineering and Technology (ICCET 2019), held on January 10–11, 2019 at Deogiri Institute of Engineering and Management Studies, Aurangabad, India. Focusing on frontier topics and next-generation technologies, it presents original and innovative research from academics, scientists, students, and engineers alike.

Fuzzy Transportation and Transshipment Problems Amarpreet Kaur 2019-10-25 This book presents a novel approach to the formulation and solution of three classes of problems: the fully fuzzy transportation problem, the fully fuzzy transshipment problem, and fully fuzzy solid transportation problem. It points out some limitations of the existing formulations and approaches, indicating some possible, conceptually and algorithmically attractive solutions to alleviate them. In particular, the book describes new conceptual and algorithmic solutions for finding the fuzzy optimal solutions of the single-objective fully fuzzy transportation problem, the fully fuzzy transshipment problem and the fully fuzzy solid transportation problem. Moreover, based on the novel concepts and solutions proposed by combining the concept of a fully fuzzy solid transportation problem and a fully fuzzy transshipment problem, it describes a new class of problems, i.e. the fully fuzzy solid transportation problem together with its fuzzy linear programming formulation and some methods to find its fuzzy optimal solution. The book offers the readers a timely piece of literature in the field of fuzzy linear programming, and is expected to act as a source of inspiration for future research and applications.

Recent Advances in Computational Optimization Stefka Fidanova 2021-12-14 This book presents recent advances in computational optimization. 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. The book is a comprehensive collection of extended contributions from the Workshops on Computational Optimization 2020. The book includes important real problems like modeling of physical processes, workforce planning, parameter settings for controlling different processes, transportation problems, wireless sensor networks, machine scheduling, air pollution modeling, solving multiple integrals and systems of differential equations which describe real processes, solving engineering problems. It shows how to develop algorithms for these and other new intelligent methods like evolutionary computations, ant colony optimization, constraint programming and others. This research demonstrates how some real-world problems arising in engineering, economics and other domains can be formulated as optimization problems.

Fuzzy Systems: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources 2017-02-22 There are a myriad of mathematical expert systems has provided new opportunities for problem-solving amidst uncertainties. Fuzzy Systems: Concepts, Methodologies, Tools, and Applications is a comprehensive reference source on the latest scholarly research and developments in fuzzy rule-based methods and examines both theoretical foundations and real-world utilization of these logic sets. Featuring a range of extensive coverage across innovative topics, such as fuzzy logic, rule-based systems, and fuzzy analysis, this is an essential publication for scientists, doctors, engineers, physicians, and researchers interested in emerging perspectives and uses of fuzzy systems in various sectors.

An Introduction to Linear Programming William Wager Cooper 2013-04 An Economic Introduction to Linear Programming By W. W. Cooper And A. Henderson. Lectures On The Mathematical Theory Of Linear Programming By A. Charnes. Linear Programming G. V. Shenoy 2007 Due To The Availability Of Computer Packages, The Pursuit of Technical Excellence Has Become Universal. This Text Has Been Written Primarily For Management Students And Executives Who Have No Previous Background Of Linear Programming. The Text Is Oriented Towards Introducing Important Ideas In Linear Programming Technique At A Fundamental Level And Help The Students In Understanding Its Applications To A Wide Variety Of Managerial Problems. In Order To Strengthen The Understanding, Each Concept Has Been Illustrated With Examples. The Book Has Been Written In A Simple And Lucid Language And Has Avoided Mathematical Derivations So As To Make It Accessible To Every One. The Text Can Be Used In Its Entirely In A Fifteen Session Course At Programmes In Management, Commerce, Economics, Engineering Or Accountancy. The Text Can Be Used In One/Two Week Management/Executive Development Programmes To Be Supplemented With Some Cases. Practicing Managers And Executives, Computer Professionals, Industrial Engineers, Chartered And Cost Accountants And Economic Planners Would Also Find This Text Useful. TRANSBALTICA XII Olegas Prentkovskis 2022 This book reports on innovative research and developments in the broad field of transportation. It covers solutions relating to intelligent vehicles and infrastructure, energy and combustion management, vehicle dynamics and control, as well as research on human factors, logistics and security. Contributions are based on peer-reviewed papers presented at the 12th international scientific conference “Transbaltica: Transportation Science and Technology”, held virtually from Vilnius Gediminas Technical University, Lithuania, on September 16-17, 2021. All in all, this book offers extensive information on modern transport systems, with a good balance of theory and practice.

Genetic Algorithms and Engineering Optimization Mitsuo Gen 1999-12-28 A comprehensive guide to a powerful new analytical tool by two of its foremost innovators The past decade has witnessed many exciting advances in the use of genetic algorithms (GAs) to solve optimization problems in everything from product design to scheduling and client/server networking. Aided by GAs, analysts and designers now routinely evolve solutions to complex combinatorial and multiobjective optimization problems with an ease and rapidity unthinkable with conventional methods. Despite the continued growth and application of this powerful analytical tool, there continues to be a lack of up-to-date guides to contemporary GA optimization principles and practices. Written by two of the world’s leading experts in the field, this book fills that gap in the literature. Taking an intuitive approach, Mitsuo Gen and Runwei Cheng employ numerous illustrations and real-world examples to help readers gain a thorough understanding of basic GA concepts—including encoding, adaptation, and genetic
optimizations-and to show how GAs can be used to solve an array of constrained, combinatorial, multiobjective, and fuzzy optimization problems. Focusing on problems commonly encountered in industry-especially in manufacturing-Professors Gen and Cheng provide in-depth coverage of advanced GA techniques for: * Reliability design * Manufacturing cell design * Scheduling * Advanced transportation problems * Network design and routing Genetic Algorithms and Engineering Optimization is an indispensable working resource for industrial engineers and designers, as well as systems analysts, operations researchers, and management scientists working in manufacturing and related industries. It also makes an excellent primary or supplementary text for advanced courses in industrial engineering, management science, operations research, computer science, and artificial intelligence.


Maritime Transportation and Regional Sustainability Adolf Ng 2019-11 Maritime Transport and Regional Sustainability is a critical examination of the developing global connections between maritime transport and regional sustainability. This book provides a comprehensive, holistic examination on how the maritime transport sector helps regions to achieve their sustainability goals, especially focusing on the challenges posed by climate change. It analyzes maritime transport from multiple perspectives, establishing a strong theoretical framework drawn on evidence from both the developed and emerging economies across the globe. It identifies commonalities that contribute to a coherent transport-region relationship, including how maritime operations, planning, and management impact regional governance. Tracing the vital threads linking transport to its regional surroundings, Maritime Transport and Regional Sustainability analyzes the major issues and challenges that maritime transport researchers, planners, and policymakers face.

For All Practical Purposes Consortium for Mathematics and Its Applications (U.S.) 2009 By the Consortium for Mathematics and Its Applications. Multiple Criteria and Multiple Constraint Levels Linear Programming Shi Yong 2001 This book introduces multiple criteria and multiple constraint levels linear programming (MC2LP), which is an extension of linear programming (LP) and multiple criteria linear programming (MCLP). In the last decade, the author and a group of researchers from the USA, China, Korea, Germany, and Hungary have been working on the theory and applications of MC2LP problems. This volume integrates their main research results ranging from theoretical bases to broad areas of real world applications. The theoretical bases include the formulation of MC2LP; integer MC2LP and MC2 transportation model; fuzzy MC2LP and fuzzy duality of MC2LP; optimal system designs and contingency plans; MC2 decision support system; and MC2 computer software development. The application areas are accounting, management information systems, production planning, and telecommunications management. The book serves as a seminar text for both undergraduates and graduates who have a linear algebra or equivalent background. For practitioners, it will help in handling LP type problems in multiple decision making environment. Fuzzy Sets-Based Methods and Techniques for Modern Analytics Ali Ebrahimnejad 2018-02-23 The book offers a comprehensive, practice-oriented introduction to the field of fuzzy mathematical programming (FMP) as key topic of modern analytics. FMP plays a fundamental role in dealing with a varied range of problems, such as those remaining from sustainable and renewable energies. This book includes an introduction to the basic concepts, together with extensive information on the computational-intelligence-based optimization models and techniques that have been used to date. Special emphasis is given to fuzzy transportation problems. The book is a valuable resource for researchers, data scientists and practitioners dealing with computational-intelligence-based optimization models for analytics. Handbook on Decision Making Chee Peng Lim 2018-09-07 Decision making arises when we wish to select the best possible course of action from a set of alternatives. With advancements of the digital technologies, it is easy, and almost instantaneous, to gather a large volume of data and information pertaining to a problem that we want to solve. For instance, the world-wi- web is perhaps the primary source of information and/or data that we often turn to when we face a decision making problem. However, the information and/or data that we obtain from the real world often are complex, and comprise various kinds of noise. Besides, real-world information and/or data often are incomplete and ambiguous, owing to uncertainties of the environments. All these make decision making a challenging task. To cope with the challenges of decision making, - searchers have designed and developed a variety of decision support systems to provide assistance in human decision making processes. The main aim of this book is to provide a small collection of techniques stemmed from artificial intelligence, as well as other complementary methods- gies, that are useful for the design and development of intelligent decision support systems. Application examples of how these intelligent decision support systems can be utilized to help tackle a variety of real-world problems in different - ments, e.g. business, management, manufacturing, transportation and food ind- tries, and biomedicine, are also presented. A total of twenty chapters, which can be broadly divided into two parts, i. e. Disrupting Mobility Gereon Meyer 2017-01-04 This book explores the opportunities and challenges of the sharing economy and innovative transportation technologies with regard to urban mobility. Written by geographers, urban and regional scientists, technologists and city planners from North America, Europe, and Australia, the papers in this book address the impacts of demographic, societal and economic trends and the fundamental changes arising from the increasing automation and connectivity of vehicles, smart communication technologies, multimodal transit services, and urban design. The book is based on the Disrupting Mobility Summit held in Cambridge, MA (USA) in November 2015, organized by the City Science Initiative at MIT Media Lab, the Transportation Sustainability Research Center at
Operations Research Using Excel Vikas Singla 2021-09-17 The field of operations research provides a scientific approach to managerial decision making. In a contemporary, hypercompetitive ever-changing business world, a manager needs quantitative and factual ways of solving problems related to optimal allocation of resources, profit/loss, maximization/minimization etc. In this endeavor, the subject of doing research on how to manage and make operations efficient is termed as Operations Research. The reference text provides conceptual and analytical knowledge for various operations research techniques. Readers, especially students of this subject, are skeptic in dealing with the subject because of its emphasis on mathematics. However, this book has tried to remove such doubts by focusing on other than part of OR techniques with minimal usage of mathematics. The attempt was to make students comfortable with some complicated topics of the subject. It covers important concepts including sensitivity analysis, duality theory, transportation solution method, Hungarian algorithm, program evaluation and review technique and periodic review system. Aimed at senior undergraduate and graduate students in the fields of mechanical engineering, civil engineering, industrial engineering and production engineering, this book: • Discusses extensive use of Microsoft Excel spreadsheets and formulas in solving operations research problems • Provides case studies and unsolved exercises at the end of each chapter • Covers industrial applications of various operations research techniques in an easy-to-understand manner • Covers problem-solving procedures for techniques including linear programming, transportation model and game theory

Operations Research Anup Goel 2021-01-01 Operations research is the fast developing branch of science which deals with the most of the engineering activities. It consist of many models which are used to obtain the optimum solution for different activities. Operations research is a procedure which is executed iteratively for comparing various solutions till the optimum or satisfactory solution is obtained. An important aspect of the optimal design process is the formulation of the problem in a mathematical format which is acceptable to an algorithm and thus find out the optimal solution. These techniques are extensively used in those engineering design problems where the emphasis is on maximising or minimising a certain goal. This book is the introduction to the different techniques in operations research. The subject does not require a high level of mathematical knowledge. Each chapter of the book have examples from variety of fields. Our hope is that this book, through its careful explanations of concepts, practical examples and techniques bridges the gap between knowledge and proper application of that knowledge.

Operations Research: Principles and Applications 2010 Wayne L. Winston 2022-01-12 The market-leading textbook for the course, Winston’s OPERATIONS RESEARCH owe much of its success to its practical orientation and consistent emphasis on model formulation and model building. It moves beyond a mere study of algorithms without sacrificing the rigor that faculty desire. As in every edition, Winston reinforces the book’s successful features and coverage with the most recent developments in the field. The Student Suite CD-ROM, which now accompanies every new copy of the text, contains the latest versions of commercial software for optimization, simulation, and decision analysis. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Operations Research N.V.S Raju 2019-09-03 This book ‘Operations Research: Theory and Practice’ provides various concepts, theoretical and practical knowledge and develops the techno-managerial skills in the field of engineering. All the angles and approaches of operations applicable to both industrial and institutional needs are presented. It also provides an insight into the historical development of Operations Research. Examples and problems from usual situations that occur in industries are presented wherever necessary. Please note: Taylor & Francis does not sell or distribute the Hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka.

Operations Research for Management G. V. Shenoy 1986

Student Solutions Manual for For All Practical Purposes Heidi A. Howard 2008-12-26 Contains complete solutions to odd-numbered problems in text.

Enable Them To Emerge As Successful Managers. The Book Would Also Be Extremely Useful For Candidates Appearing In Gate And Other Competitive Examinations. Introductory Operations Research Harvir Singh Kasana 2004-08-03 This introductory text provides undergraduate and graduate students with a concise and practical introduction to the primary concepts and techniques of optimization. Practicing engineers and managers will also find useful its concentration on problems and examples relevant to them. With a strong emphasis on basic concepts and techniques throughout, the book explains the theory behind each technique as simply as possible, along with illustrations and worked examples. It gives a balanced treatment of both the linear and nonlinear programming, plus search techniques, geometric programming, and game theory. Some typical problems varying in difficulty level are solved so readers can appreciate intricacies of the underlying concepts useful for practical problem solving. Suitable for individual or group learning, the book also includes numerous end-of-chapter problems for study and review. Optimization Concepts and Applications in Engineering Ashok D. Belegundu 2011-03-28 In this revised and enhanced second edition of Optimization Concepts and Applications in Engineering, the already robust pedagogy has been enhanced with more detailed explanations, an increased number of solved examples and end-of-chapter problems. The source codes are now available free on multiple platforms. It is vitally important to meet or exceed previous quality and reliability standards while at the same time reducing resource consumption. This textbook addresses this critical imperative integrating theory, modeling, the development of numerical methods, and problem solving, thus preparing the student to apply optimization to real-world problems. This text covers a broad variety of optimization problems using: unconstrained, constrained, gradient, and non-gradient techniques; duality concepts; multiobjective optimization; linear, integer, geometric, and dynamic programming with applications; and finite element-based optimization. It is ideal for advanced undergraduate or graduate courses and for practising engineers in all engineering disciplines, as well as in applied mathematics. Optimization Techniques In Operation Research Gupta C.B. 2008-01-01 Special features of the book 1. A very comprehensive and accessible approach in the presentation of the material. 2. A variety of solved examples to illustrate the theoretical results. 3. A large number of unsolved exercises for the students are given for practice at the end of each section. 4. Solution to each unsolved examples are given at the end of each exercise. Operations Management Ray R. Venkataraman 2018-11-29 Operations Management: Managing Global Supply Chains takes a holistic, integrated approach to managing operations and supply chains by exploring the strategic, tactical, and operational decisions and challenges facing organizations worldwide. Authors Ray R. Venkataraman and Jeffrey K. Pinto address sustainability in each chapter, showing that sustainable operations and supply chain practices are not only attainable, but are critical and often profitable practices for organizations to undertake. With a focus on critical thinking and problem solving, Operations Management provides students with a comprehensive introduction to the field and equips them with the tools necessary to thrive in today’s evolving global business environment. A Complete Teaching & Learning Package SAGE coursepacks FREE! Easily import our quality instructor and student resource content into your school’s learning management system (LMS) and save time. Learn more. SAGE edge FREE online resources for students that make learning easier. See how your students benefit. CMBEBIH 2017 Almir Badnjevic 2017-03-14 This volume presents the proceedings of the International Conference on Medical and Biological Engineering held from 16 to 18 March 2017 in Sarajevo, Bosnia and Herzegovina. Focusing on the theme of ‘Pursuing innovation. Shaping the future’, it highlights the latest advancements in Biomedical Engineering and also presents the latest findings, innovative solutions and emerging challenges in this field. Topics include: - Biomedical Signal Processing - Biomedical Imaging and Image Processing - Biosensors and Bioinstrumentation - Bio-Micro/Nano Technologies - Biomaterials - Biomechanics, Robotics and Minimally Invasive Surgery - Cardiovascular, Respiratory and Endocrine Systems Engineering - Neural and Rehabilitation Engineering - Molecular, Cellular and Tissue Engineering - Bioinformatics and Computational Biology - Clinical Engineering and Health Technology Assessment - Health Informatics, E-Health and Telemedicine - Biomedical Engineering Education - Pharmaceutical Engineering