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it covers all the relevant topics along with the recent developments in the field the book begins with an overview of operations research and then discusses the simplex method of optimization and duality concept along with the deterministic models such as post optimality analysis transportation and assignment models while covering hybrid models of operations research the book elaborates pert programme evaluation and review technique cpm critical path method dynamic programming inventory control models simulation techniques and their applications in mathematical modelling and computer programming it explains the

decision theory game theory queueing theory sequencing models replacement and reliability problems information theory and markov processes which are related to stochastic models finally this well organized book describes advanced deterministic models that include goal programming integer programming and non linear programming

this book delves into the innovative concept of biorefineries as a sustainable approach for managing biodegradable waste and producing valuable resources it highlights the pressing need to address environmental challenges such as waste accumulation and resource depletion while meeting the increasing demand for renewable energy and bio based products the book introduces the concept of biorefineries which are analogous to conventional oil refineries but focus on converting biomass and biodegradable waste into a range of high value products these products include biofuels biochemicals bioplastics biofertilizers and other materials that can replace fossil derived equivalents the author explores various technological pathways and processes involved in efficiently transforming different types of biodegradable waste such as agricultural residues food waste and organic byproducts into usable resources readers are guided through the principles of biorefinery design integration of various unit operations and the optimization of conversion processes to achieve maximum resource utilization and minimal environmental impact the book emphasizes the importance of circular economy concepts where waste is considered a valuable input rather than a burden it also discusses the economic social and environmental benefits of adopting biorefinery solutions in different sectors from agriculture to industry the book is a valuable resource for researchers policymakers industry professionals and students interested in exploring innovative approaches to waste management resource recovery and the transition towards a more sustainable and circular bioeconomy by highlighting the transformative potential of biorefineries the book contributes to the ongoing dialogue on creating a more environmentally conscious and resource efficient future

properly addressing a crisis requires more than just guesswork and a reaction it requires a properly structured approach supported by good information with the rapid evolution of information systems and information technology including hardware software the internet and communications capabilities there are abundant opportunities to apply these technology capabilities and resources to support and improve responses to and management of crisis situations approaches to crisis response and management include the design development implementation and application of systematic methodologies on how to respond as well as how to apply information systems to enhance and extend responses to crises information technology applications for crisis response and management provides a multi disciplinary perspective on current and cutting edge research exploring and extending our understanding of the use of information systems and information technology to support responses to crises of all kinds accidental intentional and acts of nature the chapters in this book focus on the design development implementation use and evaluation of information system technologies and methodologies to support crisis response and management as well as technology management related issues for crisis response and management while highlighting technical cognitive organizational

and human focused issues within the field this book is ideal for policymakers it specialists government officials crisis response teams managers practitioners researchers academicians and students interested in the use of information technology and information systems to support diverse types of crises

integer programming theory applications and computations provides information pertinent to the theory applications and computations of integer programming this book presents the computational advantages of the various techniques of integer programming organized into eight chapters this book begins with an overview of the general categorization of integer applications and explains the three fundamental techniques of integer programming this text then explores the concept of implicit enumeration which is general in a sense that it is applicable to any well defined binary program other chapters consider the branch and bound methods the cutting plane method and its closely related asymptotic problem this book discusses as well several specialized algorithms for certain well known integer models and provides an alternative approach to the solution of the integer problem the final chapter deals with a number of observations about the formulations and executions of integer programming models this book is a valuable resource for industrial engineers and research workers

global optimization is concerned with the computation and characterization of global optima of nonlinear functions during the past three decades the field of global optimization has been growing at a rapid pace and the number of publications on all aspects of global optimization has been increasing steadily many applications as well as new theoretical algorithmic and computational contributions have resulted the handbook of global optimization is the first comprehensive book to cover recent developments in global optimization each contribution in the handbook is essentially expository in nature but scholarly in its treatment the chapters cover optimality conditions complexity results concave minimization dc programming general quadratic programming nonlinear complementarity minimax problems multiplicative programming lipschitz optimization fractional programming network problems trajectory methods homotopy methods interval methods and stochastic approaches the handbook of global optimization is addressed to researchers in mathematical programming as well as all scientists who use optimization methods to model and solve problems

exploring operations research with r shows how the r programming language can be a valuable tool and way of thinking which can be successfully applied to the field of operations research or this approach is centred on the idea of the future or professional as someone who can combine knowledge of key or techniques e g simulation linear programming data science and network science with an understanding of r including tools for data representation manipulation and analysis the core aim of the book is to provide a self contained introduction to r both base r and the tidyverse and show how this knowledge can be applied to a range of or challenges in the domains of public health infectious disease and energy generation and thus provide a platform to

develop actionable insights to support decision making features can serve as a primary textbook for a comprehensive course in r with applications in or suitable for post graduate students in or and data science with a focus on the computational perspective of or the text will also be of interest to professional or practitioners as part of their continuing professional development linked to a github repository including code solutions data sets and other ancillary material

in the past practical applications motivated the development of mathematical theories which then became the subject of study in pure mathematics where abstract concepts are studied for their own sake the activity of applied mathematics is thus intimately connected with research in pure mathematics which is also referred to as theoretical mathematics theoretical and applied mathematics in international business is an essential research publication that explores the importance and implications of applied and theoretical mathematics within international business including areas such as finance general management sales and marketing and supply chain management highlighting topics such as data mining global economics and general management this publication is ideal for scholars specialists managers corporate professionals researchers and academicians

this book covers the fundamentals of linear programming extension of linear programming to discrete optimization methods multi objective functions quadratic programming geometric programming and classical calculus methods for solving nonlinear programming problems

this seventh edition continues to build on the strength of the first six editions providing balanced coverage of the theory applications and computations of operations research complex mathematical concepts are effectively explained by means of carefully designed numerical examples essentially eliminating the need for the usually obscure formal mathematical proofs the book includes fully analyzed practical situations and each chapter concludes with summary applications borrowed from published case studies the role of modern computational tools in enhancing the effectiveness of operations research as a decision making tool receives considerable attention in this new edition new for the seventh edition practically every algorithm in the book is now supported and explained by an appropriate software tool greatly facilitating the process of explaining concepts that otherwise would be difficult if not impossible to demonstrate the powerful windows based tora software offers new and unique tutorial features ranging from animated graphical lp solution to dynamic construction of cpm time charts and generation of branch and bound search trees for the first time excel te

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