

MILITARY OPERATIONS RESEARCH

QUANTITATIVE DECISION MAKING

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Military Operations Research Quantitative Decision Making

Navneet Bhushan, Kanwal Rai



Military Operations Research Quantitative Decision Making:

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Operations Research for Military

Organizations Tozan, Hakan, Karatas, Mumtaz, 2018-07-27 The study of operations research arose during World War II to enhance the effectiveness of weapons and equipment used on the battlefield Since then operations research techniques have also been used to solve several sophisticated and complex defense related problems Operations Research for Military Organizations is a critical scholarly resource that examines the issues that have an impact on aspects of contemporary quantitative applications of operations research methods in the military It also addresses innovative applications techniques and methodologies to assist in solving defense and military related problems Featuring coverage on a broad range of topics such as combat planning tactical decision aids and weapon system simulations this book is geared towards defense contractors military consultants military personnel policy makers and government departments seeking current research on defense methodologies

Quantitative Decision Making Dr. Prashant S. Kadu I Dr. Mukul Burghate, Similar to operations management project management employs an array of quantitative techniques while performing planning scheduling forecasting and monitoring tasks The main purpose of the quantitative approach is to make an optimal decision by using mathematical and statistical models in a situation when the probability of all outcomes is uncertain Quantitative approach to decision making produces the best results when the problem is clearly defined several alternatives exist and decision outcomes are easily measurable However in the case that many external factors are outside of the decision maker's control and their probability is unknown the quantitative methods can become unreliable The purpose of this study Material is to present an introduction to the subjects of MBA Semester I The contents of this text will also cater to the students of courses like DFM DMM M Com and B Com etc The book contains the syllabus from basics of the subjects going into the intricacies of the subjects All the concepts have been explained with relevant examples and diagrams to make it interesting for the readers An attempt is made here by the experts author to assist the students by way of providing Study Material as per the curriculum with no commercial considerations However it is implicit that these are exam oriented Study Material only and students are advised to attend regular classes and utilize reference books available in the library for In depth knowledge We owe to many websites and their free contents we would like to specially acknowledge contents of website www.wikipedia.com and various authors whose writings formed the basis for this book We acknowledge our thanks to them At the end we would like to say that there is always a room for improvement in whatever we do We would appreciate any suggestions regarding this study material from the readers so that the contents can be made more interesting and meaningful Dr Mukul Burghate Author

Strategic Decision Making Navneet Bhushan, Kanwal Rai, 2007-05-28 Problems with high stakes involving human perceptions and judgements and whose resolutions have long term repercussions call for a rational approach to their solution Strategic Decision Making provides an effective formal methodology that gives assistance to such strategic level decision making problems Focusing on applying the AHP to decision making problems in engineering Strategic Decision Making explores the three main endeavours of human existence business defence and governance Many

years of successfully applying Strategic Decision Making in these domains have created extensive results covering many complex planning resource allocation and priority setting problems throughout industry and business Case studies drawn from years of successful practical application experience Discusses applications of decision making for real life problems Worked examples and solutions to problems throughout The reader will gain comprehensive exposure to the extent of assistance that a formal methodology such as AHP can provide to the decision maker in evolving decisions in complex and varied domains Decision makers in business and industry around the world will find this valuable for practical use as a working tool

Decision Criteria and Optimal Inventory Processes Baoding Liu, Augustine O. Esogbue, 2012-12-06 Decision Criteria and Optimal Inventory Processes provides a theoretical and practical introduction to decision criteria and inventory processes Inventory theory is presented by focusing on the analysis and processes underlying decision criteria Included are many state of the art criterion models as background material These models are extended to the authors newly developed fuzzy criterion models which constitute a general framework for the study of stochastic inventory models with special focus on the real world inventory theoretic reservoir operations problems The applications of fuzzy criterion dynamic programming models are illustrated by reservoir operations including the integrated network of reservoir operation and the open inventory network problems An interesting feature of this book is the special attention it pays to the analysis of some theoretical and applied aspects of fuzzy criteria and dynamic fuzzy criterion models thus opening up a new way of injecting the much needed type of non cost intuitive and easy to use methods into multi stage inventory processes This is accomplished by constructing and optimizing the fuzzy criterion models developed for inventory processes Practitioners in operations research management science and engineering will find numerous new ideas and strategies for modeling real world multi stage inventory problems and researchers and applied mathematicians will find this work a stimulating and useful reference

Analysis of Queueing Networks with Blocking Simonetta Balsamo, Vittoria de Nitto Persone, Raif Onvural, 2013-03-14 Queueing network models have been widely applied as a powerful tool for modelling performance evaluation and prediction of discrete flow systems such as computer systems communication networks production lines and manufacturing systems Queueing network models with finite capacity queues and blocking have been introduced and applied as even more realistic models of systems with finite capacity resources and with population constraints In recent years research in this field has grown rapidly Analysis of Queueing Networks with Blocking introduces queueing network models with finite capacity and various types of blocking mechanisms It gives a comprehensive definition of the analytical model underlying these blocking queueing networks It surveys exact and approximate analytical solution methods and algorithms and their relevant properties It also presents various application examples of queueing networks to model computer systems and communication networks This book is organized in three parts Part I introduces queueing networks with blocking and various application examples Part II deals with exact and approximate analysis of queueing networks with blocking and the condition

under which the various techniques can be applied Part III presents a review of various properties of networks with blocking describing several equivalence properties both between networks with and without blocking and between different blocking types Approximate solution methods for the buffer allocation problem are presented

Military Logistics Vasileios Zeimpekis, George Kaimakamis, Nicholas J. Daras, 2014-11-25 This book highlights recent advances in the development of effective modeling and solution approaches to enhance the performance of military logistics It seeks to further research in global defense related topics including military operations governmental operations and security as well as nation support Additionally its purpose is to promote the global exchange of information and ideas amongst developers and users of military operations research tools and techniques Over the course of its nine chapters this edited volume addresses significant issues in military logistics including a Restructuring processes via OR methods aimed at improving the efficiency and effectiveness of the military logistics b Sense and Respond logistics prediction and coordination techniques that provide competitive advantage spanning the full range of military operations across the strategic operational and tactical levels of war c Procurement and auctioning d Inventory and stock control theories and applications e Military transport and logistical equipment and f Maintenance repair and overhaul on operational capability in general and equipment availability The book aims to bridge the gap between the abundant literature on commercial logistics and its scarce defense combat counterpart This collection of useful insights into new trends and research will offer an ideal reference for practitioners and army related personnel interested in integrating scientific rigor to improve logistics management within defense organizations agencies Ultimately this book should provide a relevant platform for the latest contributions of operations management operations research and computational intelligence towards the enhancement of military logistics

Computational Probability Winfried K. Grassmann, 2013-03-14 Great advances have been made in recent years in the field of computational probability In particular the state of the art as it relates to queuing systems stochastic Petri nets and systems dealing with reliability has benefited significantly from these advances The objective of this book is to make these topics accessible to researchers graduate students and practitioners Great care was taken to make the exposition as clear as possible Every line in the book has been evaluated and changes have been made whenever it was felt that the initial exposition was not clear enough for the intended readership The work of major research scholars in this field comprises the individual chapters of Computational Probability The first chapter describes in nonmathematical terms the challenges in computational probability Chapter 2 describes the methodologies available for obtaining the transition matrices for Markov chains with particular emphasis on stochastic Petri nets Chapter 3 discusses how to find transient probabilities and transient rewards for these Markov chains The next two chapters indicate how to find steady state probabilities for Markov chains with a finite number of states Both direct and iterative methods are described in Chapter 4 Details of these methods are given in Chapter 5 Chapters 6 and 7 deal with infinite state Markov chains which occur frequently in queueing because there are times one does not want to set a

bound for all queues Chapter 8 deals with transforms in particular Laplace transforms The work of Ward Whitt and his collaborators who have recently developed a number of numerical methods for Laplace transform inversions is emphasized in this chapter Finally if one wants to optimize a system one way to do the optimization is through Markov decision making described in Chapter 9 Markov modeling has found applications in many areas three of which are described in detail Chapter 10 analyzes discrete time queues Chapter 11 describes networks of queues and Chapter 12 deals with reliability theory

Inventory Control Sven Axsäter, 2013-04-17 Modern information technology has created new possibilities for more sophisticated and efficient control of supply chains Most organizations can reduce their material flow costs substantially Inventory control techniques are very important components in this development process A thorough understanding of relevant inventory models is a prerequisite for successful implementation I hope that this book will be a useful tool in acquiring such an understanding Nearly ten years ago I wrote a Swedish book on inventory control This previous book has been used in courses in production and inventory control at several Swedish engineering schools and has also been appreciated by many practitioners in the field Positive reactions from many readers have occasionally made me contemplate writing a new book in English on the same subject Encouraging support of this idea from the Kluwer Editors Fred Hillier and Gary Folven finally convinced me to go ahead with the project The result is this new book which in many ways differs from its Swedish predecessor Some differences are due to recent developments in inventory control Furthermore this new book is in a sense more theoretical In particular it is to a larger extent focused on creating a good basic understanding of different possible approaches when analyzing inventory models

Handbook of Semidefinite Programming Henry Wolkowicz, Romesh Saigal, Lieven Vandenbergh, 2012-12-06 Semidefinite programming SDP is one of the most exciting and active research areas in optimization It has and continues to attract researchers with very diverse backgrounds including experts in convex programming linear algebra numerical optimization combinatorial optimization control theory and statistics This tremendous research activity has been prompted by the discovery of important applications in combinatorial optimization and control theory the development of efficient interior point algorithms for solving SDP problems and the depth and elegance of the underlying optimization theory The Handbook of Semidefinite Programming offers an advanced and broad overview of the current state of the field It contains nineteen chapters written by the leading experts on the subject The chapters are organized in three parts Theory Algorithms and Applications and Extensions

Strategies for Quasi-Monte Carlo Bennett L. Fox, 2012-12-06 Strategies for Quasi Monte Carlo builds a framework to design and analyze strategies for randomized quasi Monte Carlo RQMC One key to efficient simulation using RQMC is to structure problems to reveal a small set of important variables their number being the effective dimension while the other variables collectively are relatively insignificant Another is smoothing The book provides many illustrations of both keys in particular for problems involving Poisson processes or Gaussian processes RQMC beats grids by a huge margin With low effective dimension RQMC is an

order of magnitude more efficient than standard Monte Carlo. With in addition certain smoothness perhaps induced RQMC is an order of magnitude more efficient than deterministic QMC. Unlike the latter RQMC permits error estimation via the central limit theorem. For random dimensional problems such as occur with discrete event simulation RQMC gets judiciously combined with standard Monte Carlo to keep memory requirements bounded. This monograph has been designed to appeal to a diverse audience including those with applications in queueing operations research, computational finance, mathematical programming, partial differential equations both deterministic and stochastic and particle transport as well as to probabilists and statisticians wanting to know how to apply effectively a powerful tool and to those interested in numerical integration or optimization in their own right. It recognizes that the heart of practical application is algorithms so pseudocodes appear throughout the book. While not primarily a textbook it is suitable as a supplementary text for certain graduate courses. As a reference it belongs on the shelf of everyone with a serious interest in improving simulation efficiency. Moreover it will be a valuable reference to all those individuals interested in improving simulation efficiency with more than incremental increases.

Handbook of Transportation Science Randolph Hall, 2012-12-06 Over the past thirty five years a tremendous body of both theoretical and empirical research has been established on the science of transportation. The Handbook of Transportation Science has collected and synthesized this research into a systematic treatment of this field covering its fundamental concepts, methods and principles. The purpose of this handbook is to define transportation as a scientific discipline that transcends transportation technology and methods. Whether by car, truck, airplane or by a mode of transportation that has not yet been conceived, transportation obeys fundamental properties. The science of transportation defines these properties and demonstrates how our knowledge of one mode of transportation can be used to explain the behavior of another. Transportation scientists are motivated by the desire to explain spatial interactions that result in movement of people or objects from place to place. Its methodologies draw from physics, operations research, probability and control theory. It is fundamentally a quantitative discipline relying on mathematical models and optimization algorithms to explain the phenomena of transportation. The fourteen chapters in the handbook are written by the leading researchers in transportation science in an effort to define and categorize for the first time the scientific nature and state of the art of the field. As such it is directed to the broader research community, transportation practitioners and future transportation scientists.

HUMAN LEARNING: From Learning Curves to Learning Organizations Erez M. Dar-El, 2013-03-14 Learning plays a fundamental role in the production, planning and growth of all organizations. With the need for more rapid changes in the global economy, the management of organizational change is a key factor in sustaining competitiveness in today's economy. This book has been developed with these learning needs in mind. Human Learning: From Learning Curves to Learning Organizations covers a broad range of learning models and related topics beginning with learning curves to recent research on learning organizations. The book's focus is to enable researchers and practitioners to forecast any organization's learning needs using

the prediction aspects of an array of learning models The book includes research and application discussions on topics such as accounting for previous experience the learning forgetting relearning phenomenon parameter estimation with no previous experience DeJong's incompressibility model predictive learning models requiring only two learning parameters long learning cycle times the speed error relationship evaluating the cost of learning from the point of view of safety and an examination of Learning Organizations Each chapter is developed from published research and worked examples are used throughout *Equitable Resource Allocation* Hanan Luss, 2012-09-11 A unique book that specifically addresses equitable resource allocation problems with applications in communication networks manufacturing emergency services and more Resource allocation problems focus on assigning limited resources in an economically beneficial way among competing activities Solutions to such problems affect people and everyday activities with significant impact on the private and public sectors and on society at large Using diverse application areas as examples *Equitable Resource Allocation Models Algorithms and Applications* provides readers with great insight into a topic that is not widely known in the field Starting with an overview of the topics covered the book presents a large variety of resource allocation models with special mathematical structures and provides elegant efficient algorithms that compute optimal solutions to these models Authored by one of the leading researchers in the field *Equitable Resource Allocation* Is the only book that provides a comprehensive exposition of equitable resource allocation problems Presents a collection of resource allocation models with applications in communication networks transportation content distribution manufacturing emergency services and more Exhibits practical algorithms for solving a variety of resource allocation models Uses real world applications and examples to explain important concepts Includes end of chapter exercises Bringing together much of the equitable resource allocation research from the past thirty years this book is a valuable reference for anyone interested in solving diverse optimization problems

Principles of Forecasting J.S. Armstrong, 2001 This handbook summarises knowledge from experts and empirical studies It provides guidelines that can be applied in fields such as economics sociology and psychology Includes a comprehensive forecasting dictionary Mathematical Methods in Defense Analyses J. S. Przemieniecki, 2000 Annotation This text presents the various mathematical methods used in military operations research in one easy to use reference volume The reader will find the calculations necessary to analyze all aspects of defense operations from weapon performance to combat modeling The text is so clearly written and organized that even newcomers to the field will find it useful Included with the text is an updated version of *Defense Analyses Software* a compendium of software subroutines that allow the reader to compute numerical values for functions or tables derived in the text Each subroutine is provided with a detailed reference to the equation from which it was derived to ensure that its intended application is consistent with the assumptions used in the derivation The third edition has a new chapter on theater missile defense based on the concept of layered defense with different strategies of allocating defense interceptors against short or mid range ballistic missiles **Embracing the Fog**

of War Ben Connable,2012-04-06 The unpredictable counterinsurgency environment challenges centralized quantitative campaign assessment A comprehensive examination of the centralized quantitative approach to assessment as described in the literature and doctrine and applied in two primary case studies Vietnam and Afghanistan reveals weaknesses and gaps and proposes an alternative process contextual assessment

Military Operations Research Ronaldo Trujillo,2017-03-22 Operations Research OR emerged in an effort to improve the effectiveness of newly inducted weapons and equipment during World War II While rapid growth of OR led to its becoming an important aid to decision making in all sectors including defense its contribution in defense remained largely confined to classified reports Very few books dealing with applications of quantitative decision making techniques in military have been published presumably due to limited availability of relevant information The situation changed rapidly during the last few years The recognition of the subject of Military Operations Research MOR gave tremendous boost to its development Books and journals on MOR started appearing The number of sessions on MOR at national and international conferences also registered an increase The volume of teaching training and research activities in the field of MOR at military schools and non military schools enhanced considerably Military executives and commanders started taking increasing interest in getting scientific answers to questions pertaining to weapon acquisition threat perception and quantification assessment of damage or casualties evaluation of chance of winning a battle force mix deployment and targeting of weapons against enemy targets war games and scenario evaluation

Advances in Engineering Design Rohit Sharma,Ravindra Kannojiya,Naveen Garg,Sachin S. Gautam,2023-08-19 This volume comprises the select proceedings of the 3rd Biennial International Conference on Future Learning Aspects of Mechanical Engineering FLAME 2022 It aims to provide a comprehensive and broad spectrum picture of the state of the art research and development in engineering design Various topics covered include engineering system synthesis of mechanism failure analysis solid and structural mechanics contact mechanics multi body dynamics fracture mechanics vibration and acoustics etc This volume will prove a valuable resource for researchers and professionals in the area of mechanical engineering especially engineering design and allied fields

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