

Introduction To Probability Models Volume Ii Operations Research With Cd Rom And Infotrac

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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 or gave tremendous boost to its development books and journals on or started appearing the number of sessions on or at national and international conferences also registered an increase the volume of teaching training and research activities in the field of or 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 most of these problems were being tackled on the basis of intuition judgment and experience or analysis under very simple assumptions in an increasingly sophisticated and complex defense scenario resulting in advances in equipment and communications the need for supplementing these practices by scientific research in or became imperative

operations research or emerged during world war ii as an important means of assisting civilian and military leaders in making scientifically sound improvements in the design and performance of weapons and equipment or techniques were soon extended to address questions of tactics and strategy during the war and after the war to matters of high level political and economic policy until now the story of why and how the u s army used or has remained relatively obscure surviving only in a few scattered official documents in the memories of those who participated and in a number of notes and articles that have been published about selected topics on military operations research however none of those materials amounts to a comprehensive coherent history in this the first of three planned volumes dr charles r shrader has for the first time drawn together the scattered threads and woven them into a well focused historical narrative that describes the evolution of or in the u s army from its origins in world war ii to the early 1960s he has done an admirable job of ferreting out the surviving evidence shaping it into an understandable narrative and placing it within the context of the overall development of american military institutions often working with only sparse and incomplete materials he has managed to provide a comprehensive history of or in the u s army that offers

important insights into the natural tension between military leaders and civilian scientists the establishment and growth of army or organizations the use and abuse of or techniques and of course the many important contributions that or managers and analysts have made to the growth and improvement of the army since 1942 in this volume dr shrader carries the story up to 1962 the beginning of the mcnamara era and of america s long involvement in vietnam the subsequent volumes will cover army or during the mcnamara era its application in support of military operations in vietnam and its significant contributions to the army s post vietnam recovery and reorganization ultimately leading to a victory after only 100 hours of combat in the first gulf war in 1991 and the emergence of the u s army as second to none in modern weaponry tactical prowess and strategic vision

operations research tools are ideally suited to providing solutions and insights for the many problems health policy maker s face indeed a growing body of literature on health policy analysis based on operations research methods has emerged to address the problems mentioned above and several others the research in this field is often multi disciplinary being conducted by teams that include not only operations researchers but also clinicians economists and policy analysts the research is also often very applied focusing on a specific question driven by a decision maker and many times yielding a tool to assist in future decisions the goal of this volume was to bring together a group of papers by leading experts that could showcase the current state of the field of operations research applied to health care policy there are 18 chapters that illustrate the breadth of this field the chapters use a variety of techniques including classical operations research tools such as optimization queuing theory and discrete event simulation as well as statistics epidemic models and decision analytic models the book spans the field and includes work that ranges from highly conceptual to highly applied an example of the former is the chapter by kimmel and schackman on building policy models and an example of the latter is the chapter by coyle and colleagues on developing a markov model for use by an organization in ontario that makes recommendations about the funding of new drugs the book also includes a mix of review chapters such as the chapter by hutton on public health response to influenza outbreaks and original research such as the paper by blake and colleagues analyzing a decision by canadian blood services to consolidate services this volume could provide an excellent introduction to the field of operations research applied to health care policy and it could also serve as an introduction to new areas for researchers already familiar with the topic the book is divided into six sections the first section contains two chapters that describe several different applications of operations research in health policy and provide an excellent overview of the field sections 2 to 4 present policy models in three focused areas section 5 contains two chapters on conceptualizing and building policy models the book concludes in section 6 with two chapters describing work that was done with policy makers and presenting

insights gained from working directly with policy makers

history of operations research in the united states army a comprehensive 3 volume set with each volume covering a different time span offers insights into the natural tension between military leaders and civilian scientists the establishment and growth of army operations research or organizations the use of or techniques and the many contributions that or managers and analysts have made to the growth and improvement of the army since 1942

operations research or began as an interdisciplinary activity to solve complex military problems during world war ii utilizing principles from mathematics engineering business computer science economics and statistics or has developed into a full fledged academic discipline with practical application in business industry government and m

the nature of operations research linear programming network analysis advanced topics in linear programming probability review random processes queueing models inventory models simulation dynamic programming nonlinear programming

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tracing its roots back to world war ii operations research or has become a vital tool in military and defense strategy the

second edition of the handbook of military and defense operations research highlights this evolution showcasing how or integrates with cutting edge areas like artificial intelligence cybersecurity and big data analytics this volume is more than a historical account it is a practical guide the volume features expert voices and offers insights into or applications in modern security challenges readers will discover a blend of theory and real world case studies making it an essential resource for both newcomers and seasoned defense analysis professionals dive into this handbook to explore the rich dynamic field of military and defense operations research a discipline at the heart of global security and strategic decision making new to the second edition reorganized into a three part structure extensive revisions throughout numerous new exercises examples and case studies several new chapters

for centuries the world has witnessed the development and use of increasingly complex and powerful military systems and technologies in the process the art of war has truly become the art of combined arms warfare in which infantry artillery air support intelligence and other key elements are all coordinated for maximum effect nowhere has this trend been more visible than in the history of twentieth century warfare originally published as an essential in house study for u s army officers during the 1980s this much revised and expanded edition remains the most complete study available on the subject rewritten with a much wider readership in mind it both retains its enormous practical utility for military professionals and provides a valuable and appealing introduction for scholars and general readers jonathan house author of the original work brings the story of combined arms up to the present covering among other things desert storm the war in chechnya and the rise of smart weapons and related technologies he traces the evolution of tactics weapons and organization in five major militaries american british german russian and french over 100 years of warfare revealing both continuities and contrasts within and between these fighting forces he also provides illuminating glimpses of israeli and japanese contributions to combined arms doctrine expanding his insightful analysis of the world wars and the wars in korea and vietnam house also offers much new material focused on the post vietnam period throughout he analyzes such issues as command and control problems of highly centralized organizations the development of special operations forces advances in weapons technology including ballistic and anti ballistic missile systems the trade offs involved in using heavy versus light armed forces and the enduring obstacles to effective cooperation between air and land forces his strong critique of the air superiority propaganda that came out of the gulf war is sure to spark some heated debates rigorously comparative house s study addresses significant questions about how nations prepare for war learn or don t learn its harsh lessons and adapt to changing times and technologies unique in the annals of the literature on warfare it will be the standard work on this subject for a long time to come

operations research is a relatively nascent yet dynamic field of study its applications in the industry are constantly growing this book attempts to understand the new developments across the globe in the field of operations research the various projects that are constantly contributing towards evolving and advancing technologies and the prospects of this field are looked at in detail here

grunden s analysis of this fundamental flaw in the japanese war effort seamlessly weaves together science technology and military history to provide an entirely unique look at a crucial but understudied aspect of world war ii comparing the science and weapons programs of all the major combatants he demonstrates that japan s failure was nearly inevitable given its paucity of strategic resources an inadequate industrial base the absence of effective centralized management to coordinate research military hostility toward civilian scientists and bitter interservice rivalries in the end japan could not overcome these obstacles and thus failed to make the transition to the kind of big science it needed to ward off its enemies and dominate the far east book jacket

operations research originated during world war ii with the military s need for a scientific method of providing executive departments with a quantitative decision making basis this volume co written by the father of operations research explores strategical kinematics tactical analysis gunnery and bombardment problems organizational and procedural problems more includes 51 figures and 31 tables

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Introduction

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