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# Studying First-Strike Stability with Knowledge- Based Models of Human Decisionmaking

Paul K. Davis

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# Studying First Strike Stability With Knowledge Based Models Of Human Decisionmaking

**Paul K. Davis**



## **Studying First Strike Stability With Knowledge Based Models Of Human Decisionmaking:**

### **Studying First-strike Stability with Knowledge-based Models of Human Decision-making** Paul K.

Davis,1989-01-01 First strike stability depends on the improbability of crises and the improbability that crises would result in first strikes This study focuses on the latter criterion which in turn depends on crisis decisionmaking by human beings The report argues that efforts to understand and improve first strike stability should be guided by a formal theory of human decisionmaking that accounts for behavioral factors such as mindset desperation fatalism perceptions and fears The author identifies three principal mechanisms for improving first strike stability 1 improve force posture stability 2 review and adjust nuclear policies and doctrine and the way they are discussed and 3 improve the likely quality of crisis decisionmaking through efforts involving education exercises and staffing

### **Studying First-Strike Stability with Knowledge-Based Models of Human Decisionmaking** ,1989 The RAND Corporation and the RAND UCLA Center for the Study of Soviet

International Behavior CSSIB have a joint project for the Carnegie Corporation entitled Avoiding Nuclear War Managing Conflict in the Nuclear Age This project has two broad objectives to understand better the process of escalation from peace through general nuclear war and to identify and assess while protecting vital national interests unilateral and cooperative measures that might inhibit unintended escalation or improve prospects for reversing or controlling escalation once it has begun This report contributes to the larger project by describing efforts of the author and colleagues in the RAND Strategy Assessment center to develop and use knowledge based analytic models of national command level decisionmaking for better understanding and communicating issues of deterrence escalation and war termination The intended audience includes researchers and government figures interested in crisis decision making related command and control problems and a framework for thinking about first strike stability that integrates both force posture factors and behavioral factors

First Strike Stability Stephen J. Cimbala,1990-08-24 The lifting of the Iron Curtain in response to pressures for democratic reform in the Eastern Bloc nations and the refusal of General Secretary Mikhail Gorbachev to use the Red Army to police countries of the Warsaw Pact have led to a radically changed international environment Preceded by over 40 years of peace and stability unprecedented in the history of modern Europe the Cold War ended in a climate of upheaval and uncertainty This volume addresses issues associated with the political and military vacuum created by recent events and explores in depth a problem of military uncertainty first strike stability Stephen J Cimbala argues that war in a system undergoing rapid change including reductions in forces and political realignment remains disturbingly possible due to the unforeseeable inadvertent and uncontrollable uncertainties that plague decision making and military planning in Washington Moscow and other international power centers hence first strike instability This timely volume clarifies the kind of bargain superpowers and their allies have made in regard to nuclear weapons and command systems Cimbala provides enhanced understandings of the concept and practice of nuclear deterrence and of first strike stability in a post Cold War world that can help direct arms

control efforts toward those areas that are most important to actual security Broad aspects of the problem of first strike stability are set forth in the first chapter which also anticipates some of the connections between political and military levels of analysis discussed in the conclusion Chapter two introduces the concepts of the state of nature and the state of war explains how they apply to the problem of first strike stability and why the possibility of war including nuclear war cannot be excluded Chapter three focuses on the New Soviet Thinking and why the probability of accidental and inadvertent war and escalation is not affected by reducing the levels of armaments alone Chapter four emphasizes the problems facing the United States and NATO and the approaches to escalation control which NATO assumes will be implemented should deterrence fail The results of the theoretical and administrative confusion over approaches to escalation control outlined in chapter four reappear in chapter five in the form of problems for war termination The controversial issue of eliminating nuclear deterrence with emphasis on the proposal for elimination by preclusive antinuclear strategic defenses is the focus of chapter six The final chapter reviews the implications of the preceding chapters and arrives at some startling conclusions Scholars and students of military affairs political scientists government officials and members of the military establishment will find the up to the minute information and judgements contained in First Strike Stability invaluable aids to their own decision making on this profoundly important world issue

Simple Models to Explore Deterrence and More General Influence in the War with Al-Qaeda Paul K. Davis, 2014-05-20 Deterring terrorism is best approached as part of a broad effort to influence all elements of a terrorist system and simple conceptual models of decisionmaking can help in understanding how to affect others behavior The paper lays out a theory of how to use influence to affect elements of a terrorist system touching on root causes individual motivation public support and likely factors in the decisionmaking of terrorist organizations

**The De-escalation of Nuclear Crises** Joseph E. Nation, 1991-06-18 The de escalation of a nuclear crisis is one of the major issues facing humankind This book examines how nations in crises might successfully move back from the brink of nuclear war and how confidence building measures might help and hinder the de escalatory process

Object-Oriented Simulation with Hierarchical, Modular Models Bernard P. Zeigler, 2014-05-10 Object Oriented Simulation with Hierarchical Modular Models Intelligent Agents and Endomorphic Systems describes an approach to object oriented discrete event simulation and the concepts of hierarchical modular model construction The implementation of the concepts of multifaceted modeling methodology in the DEVS Scheme modeling and simulation environment is discussed The use of the DEVS Scheme environment in modeling artificial intelligent agents is also considered along with the concept of endomorphism to characterize the application of self embedded models including models of self Comprised of 15 chapters this book begins with an overview of the dimensions of knowledge representation in simulation environments followed by a discussion on object oriented programming as well as the concepts of modular hierarchical models and the system entity structure Subsequent chapters focus on digraph models and experimental frames DEVS formalism and DEVS Scheme simulation

environment a model base for simple multi computer architectures and rule based specification of atomic models Model bases in endomorphic systems and intelligent agents are also examined This monograph will be of interest to simulation theorists as well as practitioners and researchers in the fields of artificial intelligence systems engineering computer science and engineering and operations research

**Implications of Modern Decision Science for Military Decision-support Systems** Paul K. Davis,Jonathan Kulick,Michael Egner,2005 A selective review of modern decision science and implications for decision support systems The study suggests ways to synthesize lessons from research on heuristics and biases with those from naturalistic research It also discusses modern tools such as increasingly realistic simulations multiresolution modeling and exploratory analysis which can assist decisionmakers in choosing strategies that are flexible adaptive and robust

*Deterrence*“From Cold War to Long War Austin Long,2008-10-27 Since its inception six decades ago the RAND Corporation has been one of the key institutional homes for the study of deterrence This book examines much of this research for lessons relevant to the current and future strategic environment It is therefore part intellectual history and part policy recommendation intended to encourage debate and discussion on how deterrence can best be incorporated into U S strategy

**Nuclear Deterrence in a Multipolar World** Stephen J Cimbala,2017-07-05 The view that America and Russia have burned their candles on security cooperation with respect to nuclear weapons is simply mistaken This timely study identifies twelve themes or issue areas that must be addressed by the United States and Russia if they are to provide shared successful leadership in the management of nuclear world order Designed as supplementary reading in upper division and graduate courses in national security policy defense and nuclear arms control it is also suitable for courses taught at military staff and command colleges and or war colleges

**Advances in Culturally-Aware Intelligent Systems and in Cross-Cultural Psychological Studies** Colette Faucher,2017-11-03 This book offers valuable new insights into the design of culturally aware systems In its first part it is devoted to presenting selected Culturally Aware Intelligent Systems devised in the field of Artificial Intelligence and its second part consists of two sub parts that offer a source of inspiration for building modelizations of Culture and of its influence on the human mind and behavior to be used in new Culturally Aware Intelligent Systems Those sub parts present the results of experiments conducted in two fields that study Culture and its influence on the human mind s functions Cultural Neuroscience and Cross Cultural Psychology In this era of globalization people from different countries and cultures have the opportunity to interact directly or indirectly in a wide variety of contexts Despite differences in their ways of thinking and reasoning their behaviors their values lifestyles customs and habits languages religions in a word their cultures they must be able to collaborate on projects to understand each other s views to communicate in such a way that they don t offend each other to anticipate the effects of their actions on others and so on As such it is of primary importance to understand how culture affects people s mental activities such as perception interpretation reasoning emotion and behavior in order to anticipate possible misunderstandings due to differences in

handling the same situation and to try and resolve them Artificial Intelligence and more specifically the field of Intelligent Systems design aims at building systems that mimic the behavior of human beings in order to complete tasks more efficiently than humans could by themselves Consequently in the last decade experts and scholars in the field of Intelligent Systems have been increasingly tackling the notion of cultural awareness A Culturally Aware Intelligent System can be defined as a system where Culture related or more generally socio cultural information is modeled and used to design the human machine interface or to provide support with the task carried out by the system be it reasoning simulation or any other task involving cultural knowledge

*Beyond Guns and Steel* Dominic J. Caraccilo, 2011-01-19 This work is a doctrinal examination of war termination strategy and conflict resolution as a dependent pair requiring a plan to achieve both in unison in advance of a fight The necessity of a plan for conflict resolution should be intuitively obvious for policymakers yet a survey of recent conflicts including Afghanistan and Iraq shows that not to be the case Beyond Guns and Steel A War Termination Strategy provides a practical approach to establishing a plan for war termination and conflict resolution before the bullets fly In explaining the difference between strategy and policy Colonel Dominic J Caraccilo clarifies the most important and often the most constraining element of a nation s power its resources He posits that termination strategy and conflict resolution are interdependent and need to be included in conflict plans from the outset Caraccilo s book fills a void in current strategy for the development of long term plans that bring conflicts to timely and acceptable conclusions providing a methodology that allows interagency requirements and resources for war termination to be defined allocated and employed effectively

*Clausewitz and Escalation* Stephen J. Cimbala, 2012-11-12 Published in 1991 Clausewitz and Escalation is a valuable contribution to the field of Military Strategic Studies

**Defending the Arsenal** Adam B. Lowther, Stephen J. Cimbala, 2016-09-19 One important area of interest within military and policy circles focuses on an effort to revitalize the nuclear triad amidst a number of competing strategic interests The difficulties arising from US engagement in Iraq and Afghanistan are leading many scholars and policy makers to question whether a reinvigorated nuclear triad has any role in deterring modern adversaries This volume takes an unashamed pro nuclear modernization position and argues for designing and fielding new nuclear warheads and delivery systems submarine ICBM and bomber while also arguing against signing the Comprehensive Test Ban Treaty or agreeing to further reductions in the nuclear arsenal It also argues that nuclear deterrence remains as relevant today perhaps more than it was during the Cold War With so many authors advocating for Global Zero and highlighting perceived dangers from a nuclear arsenal this work stands in stark contrast to the chorus of anti arsenal works Because of the work s structure and effort to answer questions of current relevance it should appeal to a broad audience including service staffs PME students COCOM staffs Pentagon personnel Capitol Hill staffers policy makers academics graduate students and interested readers

**Nuclear Weapons and Cooperative Security in the 21st Century** Stephen J. Cimbala, 2009-09-10 This book looks at the prospects for international cooperation over nuclear weapons

proliferation in the 21st century Nuclear weapons served as stabilizing forces during the Cold War or the First Nuclear Age on account of their capability for destruction the fear that this created among politicians and publics and the domination of the nuclear world order by two superpowers the United States and the Soviet Union The end of the Cold War the dissolution of the Soviet Union and the potential for nuclear weapons acquisition among revisionist states or even non state actors including terrorists creates the possibility of a wolves eat dogs phenomenon in the present century In the 21st century three forces threaten to undo or weaken the long nuclear peace and fast forward states into a new and more dangerous situation the existence of large US and Russian nuclear weapons arsenals the potential for new technologies including missile defenses and long range precision conventional weapons and a collapse or atrophy of the nuclear nonproliferation regime and the opening of the door for nuclear weapons to spread among more than the currently acknowledged nuclear states This book explains how these three weakening forces interact with one another and with US and Russian policy making in order to create an environment of large possibilities for cooperative security but also of considerable danger Instead the choices made by military planners and policy makers will create an early twenty first century story privileging nuclear stability or chaos The US and Russia can and should make incremental progress in arms control and nonproliferation This book will be of much interest to students of nuclear proliferation and arms control strategic studies international security and IR in general Stephen J Cimbala is Distinguished Professor of Political Science at Pennsylvania State University He is the author of numerous works in the fields of international security defense studies nuclear arms control and other topics He has consulted for various US government agencies and defense contractors

Modeling of Soft Factors in the Rand Strategy Assessment System (RSAS) Paul K. Davis, Rand Corporation, 1989 Reflecting soft factors defined as factors not yet reflected explicitly in analysis and not yet well understood has been a major goal since the RAND Strategy Assessment System RSAS was designed in 1982 This paper discusses how selected soft factors have been and could be represented in combat models theater level decision models dealing with command control issues and national command level models dealing with issues of national policy strategy and controls The paper also discusses the limited empirical basis for the assumptions used and speculates about the degree to which the empirical and subjective bases could be improved Finally it notes several recent examples of policy level analysis that have been strongly affected by assumptions about soft factors involving human and organizational issues notably factors involving readiness surprise national fighting quality the break point phenomenon and command control adaptability

Selected Rand Abstracts Rand Corporation, 1989 Includes publications previously listed in the supplements to the Index of selected publications of the Rand Corporation Oct 1962 Feb 1963

**Some Lessons Learned from Building Red Agents in the Rand Strategy Assessment System (RSAS)** Paul K. Davis, Rand Corporation, 1989 This study describes some of the lessons learned from developing political level and Theater Commander level decision models for Use in the Rand Strategy assessment system rsas These knowledge based models called Red agents can represent alternative

mindsets and alternative Military strategies      Toward a Conceptual Framework for Operational Arms Control in Europe's Central Region Paul K. Davis, Rand Corporation, 1988 This study sketches a military framework for conceiving and evaluating measures for operational arms control in Europe's central region i.e. arms control affecting the operations and readiness of forces. Such measures are complementary to structural arms control which affects size and composition. In the past, operational arms control has been largely associated with confidence building measures that have limited although worthy ambitions. This study argues however that operational arms control has the potential to substantially improve NATO's military security. Although operational arms control has considerable potential by itself, this study concludes that it should no longer be treated as a separate subject but should be integrated with structural measures      Science Trends ,1989-12

**Strategy After Deterrence** Stephen J. Cimbala, 1991-01-30 The profound political changes in the USSR and Eastern Europe during 1989 have forced the United States and its Western European allies to reevaluate both their long held military strategy of nuclear deterrence and the traditional role of NATO in European affairs. In this volume Stephen Cimbala considers the ways in which American military priorities will have to change now that the tangible threat to Europe has been removed, exploring the options available to America and NATO given the new political and economic realities in Europe and the Soviet Union. Drawing upon a rich literature of Soviet and American defense strategy, Cimbala examines the structure and effectiveness of deterrence as a military strategy, the relationship between conventional and nuclear weapons, the likely course of future conflicts, and alternative military strategies. Following an introductory chapter which defines the concepts of deterrence and dissuasion and offers an overview of the changing character of European politics, Cimbala reviews the political context for the development of military strategy in Europe. Subsequent chapters consider the relationship between military stability and the likelihood of winning wars in their initial stages, analyze the issue of deterrence during war, discuss the potential for atypical wars in the future, and investigate the linkages between deception and deterrence. A separate chapter addresses the attempt to substitute non nuclear dissuasion for nuclear deterrence in the form of anti nuclear strategic defenses which could defeat nuclear offenses. In the final chapter Cimbala summarizes his conclusions and makes some additional observations about the implications of our new view of NATO and deterrence. Students of international relations, foreign policy, and military studies will find Cimbala's work enlightening and provocative reading.



The book delves into Studying First Strike Stability With Knowledge Based Models Of Human Decisionmaking. Studying First Strike Stability With Knowledge Based Models Of Human Decisionmaking is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Studying First Strike Stability With Knowledge Based Models Of Human Decisionmaking, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
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    - Chapter 4: Studying First Strike Stability With Knowledge Based Models Of Human Decisionmaking in Specific Contexts
    - Chapter 5: Conclusion
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  6. In chapter 5, the author will draw a conclusion about Studying First Strike Stability With Knowledge Based Models Of Human Decisionmaking. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly

recommended for anyone seeking to gain a comprehensive understanding of Studying First Strike Stability With Knowledge Based Models Of Human Decisionmaking.

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