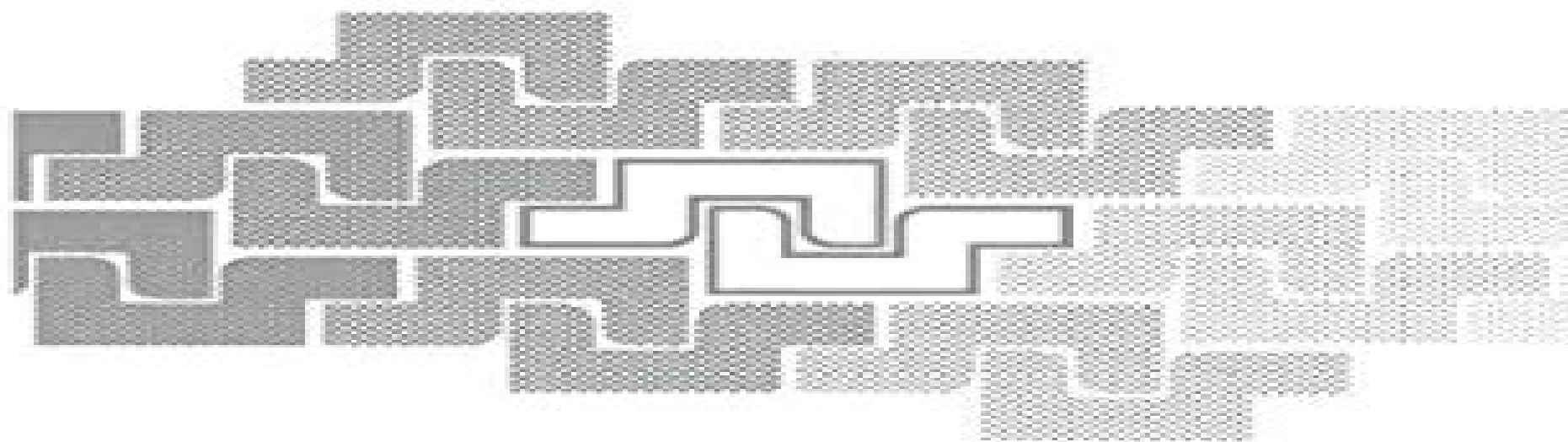




Modelling and Analysis in Arms Control

Edited by
R. Avenhaus, R. K. Huber, and J. D. Kettelle

NATO ASI Series

Series F: Computer and Systems Sciences, Vol. 26

Modelling And Analysis In Arms Control

Michael P. Polis



Modelling And Analysis In Arms Control:

Modelling and Analysis in Arms Control Rudolf Avenhaus, Reiner K. Huber, John D. Kettelle, 2012-12-06 This book presents the results of an international workshop on Modelling and Analysis of Arms Control Problems held in Spitzingsee near Munich in October 1985 under the joint sponsorship of NATO's Scientific Affairs Division and the Volkswagen Foundation. The idea for this workshop evolved in 1983 as a consequence of discussions in the annual Systems Science Seminar at the Computer Science Department of the Federal Armed Forces University Munich on the topic of Quantitative Assessment in Arms Control. There was wide agreement among the contributors to that seminar and its participants that those efforts to assess the potential contributions of systems and decision sciences as well as systems analysis and mathematical modelling to arms control issues should be expanded and a forum should be provided for this activity. It was further agreed that such a forum should include political scientists and policy analysts working in the area of arms control. **Quantitative**

Assessment in Arms Control Rudolf Avenhaus, 2012-12-06 This book originates in a series of contributions to the 1983 Systems Science Seminar at the Computer Science Department of the German Armed Forces University Munich. Under the topic Quantitative Approaches to Arms Control that seminar attempted to review the present state of the art of systems analysis and numerical methods in arms control. To this end the editors invited a number of experts from Europe, the United States and Canada to share and discuss their views and assessments with the faculty and upper class computer science students of the university as well as numerous guests from the defence community and the interested public. In three parts this book presents a selection of partly revised and somewhat extended versions of the seminar presentations followed in most cases by brief summaries of the transcripts of the respective discussions. In addition to an introduction by the editors part I contains six papers on the present state and problems of arms control with emphasis on START Strategic Arms Reduction Talks, INF Intermediate range Nuclear Forces negotiations and MBFR Mutually Balanced Force Reduction talks. The seven contributions to part II are devoted to mathematical models of arms competition and quantitative approaches to force balance assessment of both the static and dynamic variety. Part III presents five papers which address technical and operational aspects and legal implications of arms control negotiations and verification. **Handbook of Game Theory**

with Economic Applications R.J. Aumann, S. Hart, 1992 This is the second of three volumes surveying the state of the art in Game Theory and its applications to many and varied fields in particular to economics. The chapters in the present volume are contributed by outstanding authorities and provide comprehensive coverage and precise statements of the main results in each area. The applications include empirical evidence. The following topics are covered: communication and correlated equilibria, coalitional games and coalition structures, utility and subjective probability, common knowledge, bargaining, zero sum games, differential games and applications of game theory to signalling, moral hazard, search, evolutionary biology, international relations, voting procedures, social choice, public economics, politics and cost allocation. This handbook will be of

interest to scholars in economics political science psychology mathematics and biology For more information on the Handbooks in Economics series please see our home page on <http://www.elsevier.nl> locate hes **A Survey of Game Theory Models on Peace and War** Barry O'Neill,1990 **Avoiding Armageddon** Andrew Richter,2011-11-01 The advent of nuclear weapons in the 1940s brought enormous changes to doctrines regarding the use of force in resolving disputes American strategists have been widely credited with most of these Canadians most have assumed did not conduct their own strategic analysis Avoiding Armageddon soundly debunks this notion Drawing on previously classified government records Richter reveals that Canadian defence officials did come to independent strategic understandings of the most critical issues of the nuclear age Canadian appreciation of deterrence arms control and strategic stability differed conceptually from the US models Similarly Canadian thinking on the controversial issues of air defence and the domestic acquisition of nuclear weapons was primarily influenced by decidedly Canadian interests Avoiding Armageddon is a work with far reaching implications It illustrates Canada's considerable latitude for independent defence thinking while providing key historical information that helps make sense of the contemporary Canadian defence debate *Terrorism and Weapons of Mass Destruction* Ian Bellany,2007-12-12 This book critically assesses the suggestion that strengthening existing international prohibitions against state level acquisition of Weapons of Mass Destruction could safeguard against the possibility of their use by terrorists targeting civilians ,1985 **Principles of Conflict Economics** Charles H. Anderton,John R. Carter,2009-03-23 Drawing on a half century of scholarship this book presents a primer on the key themes and principles of conflict economics Although much work in the field is abstract the book is made accessible to a broad audience of scholars students and policymakers by relying on historical data relatively simple graphs and intuitive narratives

Hearings, Reports and Prints of the House Committee on Foreign Affairs United States. Congress. House. Committee on Foreign Affairs (1789-1975),1972 *Systems Modelling and Optimization Proceedings of the 18th IFIP TC7 Conference* Michael P. Polis,2022-03-08 Top researchers in optimization and control from around the world gathered in Detroit for the 18th annual IFIP TC7 Conference on Systems Modelling and Optimization held in July 1997 The papers presented in this volume were carefully selected from among the 250 plenary invited and contributed works presented at the conference The editors chose these papers to represent the myriad and diverse range of topics within the field and to disseminate important new results It includes recent results on a broad variety of modelling and control applications particularly automotive modelling and control along with recent theoretical advances

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