

*Quantitative Assessment In Arms Control
Mathematical Modeling And Simulation In The
Analysis Of Arms Control Problems*

This volume examines the point where the concepts and practices of escalation and negotiation meet.

This research guide is intended primarily for two groups of specialists. The first consists of Sovietologists interested in acquiring a more complete knowledge of Soviet strategic and military policy. The second includes strategic analysts interested in expanding their expertise to cover Soviet strategy and thinking. However, it was assembled so as to be useful as well for non-specialists interested in investigating Soviet nuclear weapons policy.

***Arms Control and Disarmament, Defense and Military, International Security, and Peace
Monthly Catalog of United States Government Publications***

***Strategic Stability and Arms Control
Fiscal Year 1991 Arms Control Impact
Statements***

Cumulative Book Index

China, Arms Control, and Non-Proliferation

Rapporten analyserer en række aspekter vedrørende anti-satellit våben i almindelighed og anfører at våbenkontrolforanstaltninger kan bidrage til at mindske risici forbundet

med udviklingen af den nyeste våben teknologi.

The Middle East is a hot spot of proliferation. It contains one state assumed to possess nuclear weapons, several states that tried and failed to develop a military nuclear capability, one state under suspicion of trying to do so, and it is the world region that witnessed the most frequent and severe employment of chemical weapons since the end of World War I.

Notwithstanding, not a single arms control regime concerning weapons of mass destruction (WMD) covers the region as a whole. Instead we have seen several proliferation-related military operations which have rather contributed to destabilization than served non-proliferation. This volume, written under the auspices of the EU Consortium for Non-Proliferation and Disarmament determines the current state of diplomatic efforts to establish a WMD free zone in the Middle East. In doing so, it provides insights into central actors' conflicting political positions, thereby explaining the stalemate of efforts to negotiate a

WMD-free zone. Chapters written by renowned experts from academia and policy-oriented think tanks, as well as by next-generation Middle East and arms control experts, introduce the subject to the reader, give background information about arms control initiatives, provide technical expertise, and endeavour to make proposals for arms control measures in support of the creation of a Middle East WMD-free zone.

Verification Technologies

Bibliography of Arms Control

Verification

The Case of the Korean Peninsula

Soviet Nuclear Weapons Policy

Fiscal Year 1993 Arms Control Impact

Statements

the results of the 6. international

AFES-PRESS conference

Adequate verification is the key issue not only in today's arms control, arms limitation, and disarmament regimes, but also in less spectacular areas like auditing in economics or control of environmental pollution.

Statistical methodologies and system analytical approaches are the tools developed over the past decades for quantifying those components of adequate verification which are quantifiable, i. e. , numbers, inventories, mass transfers, etc. , together with their

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uncertainties. In his book *Safeguards Systems Analysis*, Professor Rudolf Avenhaus condenses the experience and expertise he has gained over the past 20 years, when his work was mainly related to the development of the IAEA's system for safeguarding nuclear materials, to system analytical studies at IIASA in the field of future energy requirements and their risks, and to the application of statistical techniques to arms control. The result is a unified and up-to-date presentation and analysis of the quantitative aspects of safeguards systems, and the application of the more important findings to practical problems. International Nuclear Material Safeguards, by far the most advanced verification system in the field of arms limitation, is used as the main field of application for the game theoretical analysis, material accountancy theory, and the theory on verification of material accounting data developed in the first four chapters.

This facsimile reprint of the 1989 edition is, according to *Library Journal*, "...a wonderfully concise and comprehensive resource on a very important topic. In 268 detailed entries, the authors provide a wealth of information on such topics as the arms race, conventional and nuclear weapons, nuclear strategy, and disarmament. The entries are cross-referenced, and there is an index. Of great value to general readers as well as specialists."

Multicriteria Decision Making

WMD Arms Control in the Middle East

Mathematical Modeling and Simulation in the Analysis of Arms Control Problems

The Changing Role of Conventional Arms Control in Europe

Designing and Evaluating Conventional Arms Control

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Cooperative Aerial Surveillance in International Agreements

A world list of books in the English language.

Examines the issues related to the control of nuclear weapons in the early 21st century.

Arms Control and Security: The Changing Role of Conventional Arms Control in Europe

Research, development, test, and evaluation

Safeguards Systems Analysis

Arms Control and Disarmament

A Research And Bibliographic Guide

Modelling and Analysis in Arms Control

China, Arms Control, and Non-Proliferation is an empirically and conceptually path-breaking book that documents China's participation in international arms control and non-proliferation regimes from 1985 to 2001. The book focuses on the distinction between US expectations of Chinese compliance, which China has not always met, and international standards, against which Chinese performance is acceptable. This will be the standard staple work dealing with China and international arms control and will be invaluable to those dealing with Chinese security studies, foreign policy, international relations and arms control and disarmament.

This title was first published in 2000: The aim of this text is to explore conventional arms control in Europe. The early chapters provide a primarily historical perspective, looking at the context,

foundations, main provisions and institutional structure of the main agreements. The later chapters explore the continuing and likely future roles of the OSCE and NATO in the arms control process. The final chapters examine more contemporary developments by looking at the Adapted CFE Treaty and Vienna Documents agreed at the OSCE Istanbul Summit in November 1998 and the challenges posed to existing arrangements by the changing and emergent security threats that potentially face Europe.

A London Bibliography of the Social Sciences
An Annotated Guide to Sources, 1980-1987
Security Awareness Bulletin
The Other Side of Arms Control
The Cumulative Book Index

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 re vised 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 prob lems of arms control with emphasis on START (Strategic Arms Re duction Talks), INF (Intermediate-range Nuclear Forces negotia tions), 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 pre sents five papers which address technical and operational aspects and legal implications of arms control negotiations and verifica tion.

How does the Soviet Union view the costs and benefits of nuclear arms control? What factors motivate Soviet negotiations with the Western world on this crucial issue? And what, precisely, does the Soviet Union hope to accomplish through nuclear arms

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control? Originally published in 1988, *The Other Side of Arms Control* provides an in-depth examination of this too infrequently discussed aspect of the arms race and the ongoing negotiations to halt it. In *The Other Side of Arms Control*, Alan B. Sherr argues that the time is now right for significant substantive progress to be made on nuclear arms control: the Soviet leadership under Mikhail Gorbachev has demonstrated greater flexibility and willingness to compromise on a number of difficult issues, including verification. But more important, circumstances within and outside the Soviet Union now make progress on arms control crucial to Soviet political and economic goals as well as foreign policy objectives. Written in accessible, nontechnical language, *The Other Side of Arms Control* will be of historical interest to students, teachers, policymakers, and others concerned with the future of nuclear arms control.

A New Nuclear Century

The Arms Control, Disarmament, and Military Security Dictionary

International Negotiations: A Bibliography Monthly Catalogue, United States Public Documents

Statements Submitted to the Congress by the President Pursuant to Section 36 of

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the Arms Control and Disarmament Act Prospects, Obstacles and Options

Quantitative Assessment in Arms Control Mathematical Modeling and Simulation in the Analysis of Arms Control Problems Springer Science & Business Media

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 1) • There was wide agreement among the contributors to that seminar and its participants that those efforts to assess the potential contribution 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.

Defense Department Authorization and Oversight

Anti-satellite Weapons, Countermeasures, and Arms Control

Bibliography on Arms Control Verification, 1962-1991

The British National Bibliography

Verification and arms control, implications for European security

The Analytic Hierarchy Process