

# Arms Control and Technological Innovation

Edited by  
David Carlton and Carlo Schaerf



# Arms Control And Technological Innovation

**Benoît Godin**



## **Arms Control And Technological Innovation:**

**Arms Control and Technological Innovation** David Carlton, Carlo Schaerf, 1977 Of proceedings Herbert M Levine New technologies and new weapons systems Kosta Tsipis Can conventional new technologies and new tactics replace tactical nuclear weapons in Europe Jorma K Miettinen International political economy of proliferation Steven J Baker Arms limitation and security policies required to minimise the proliferation of nuclear weapons Enid C B Schoettle Anglo American nuclear relationship proliferatroy or anti proliferatory David Carlton Proliferation sophisticated weapons and revolutionary options the sub state perspective J Bowyer Bell Arms and politics old issues new perceptions Michael Nacht Different approach to arms control reciprocal unilateral restraint Herbert Scoville Jr New approach to strategic arms limitation and reduction William Epstein Strategic arms limitation and military strategic concepts M A Milstein Nuclear testing no end in sight Thomas A Halsted Reconnaissance satellites and the arms race Herbert F York Realities of arms control the cruise missile case Robert A Nalewajek Diffusion of economic and military power and its impact on the Middle East Conflict Mario n Mushkat Fallacy of thinking conventionally about nuclear weapons Hans J Morgenthau All at sea A critique of the American strategic force structure Peter King Function of military power B V A Roling 116 wars in 30 years Istvan Kende Role of arms in capitalist economies the process of overdevelopment and underdevelopment Mary Kaldor Economic and technological prerequisites for achieving political and military stability Tom Stonier

**Arms Control and Technological Innovation** David Carlton, Carlo Schaerf, 2024-11-02 First published in 1977 Arms Control and Technological Innovation is primarily concerned with three subjects the causes of the arms race the consequences of the arms race to the world and the control of the arms race Written by experts in the field it brings themes like new technologies and new weapon systems new tactics to replace tactical nuclear weapons in Europe the Anglo American nuclear relationship strategic arms limitation and military strategic concepts and a new approach to strategic arms limitation and reduction The book argues that the principal problem of the arms race according to several lectures is that weapons and delivery systems technology have developed so much as to threaten the survival of civilization itself The pace of technological change is proceeding more rapidly than ever before and there is serious doubt whether political institutions are adapting to this change in time to avoid devastating consequences to the world This book is a must read for scholars and researchers of military and strategic studies international relations international politics and geopolitics

**Arms Control and Technological Change** Christoph Bertram, 1978 **Success and Failure in Arms Control Negotiations** April Carter, 1989 Governments have been negotiating about disarmament or more limited forms of arms control for forty years Despite these negotiations weapons of increasing deadliness and sophistication continue to be developed Through the use of case studies of particular negotiations Partial and Comprehensive Test Ban SALT I and II INF and START and MBFR CFE the book explores both the reasons for success and the obstacles leading to failure and assesses the importance of different types of explanation Dr Carter not only analyses the reasons why

negotiations fail she also examines the conditions under which they are likely to succeed The result is a balanced comprehensive treatment of the problems and prospects for arms control

**Armament, Arms Control and Artificial Intelligence** Thomas Reinhold,Niklas Schörnig,2022-10-08 Looking at a variety of armament sectors the book examines how Artificial Intelligence AI impacts the fields of armament and arms control how existing arms control measures will be affected by AI and what new approaches based on AI have been or are currently developed The significant increase in computing power the increasing reliance on software and the advent of narrow AI and deep learning algorithms all have the potential to lead to disruptive changes for military operations and warfare rendering many classical arms control instruments less effective or even useless On the other hand AI might lead to completely new arms control approaches raising the effectiveness and reliability of new verification measures To provide a common understanding the book starts by presenting a general introduction to the state of the art in artificial intelligence and arms control and how the two topics are interrelated The second part of the book looks at examples from various fields of weapon technology including weapons of mass destruction WMD conventional armament and emerging technologies The final section offers a cross cutting perspective based on the examples presented in the second part This volume will appeal to students and scholars of international relations as well as policy makers and practitioners interested in a better understanding of peace and security studies in general and armament and arms control in particular with a strong focus on AI

**The Arms Dynamic in World Politics** Barry Buzan,Eric Herring,1998 Presented as a successor to the Cold War era book An Introduction to Strategic Studies this volume explores issues of military security through a framework that links the issues of technology and world politics Arguing that the technological aspect of the global strategic environment is partway through a centuries long process of transformation sped up by the advent of the information age the authors examine such issues as different levels of industrial development on security what they argue is the relative infrequency of the use of force between states the use of military threats such as mass destruction concepts that military means create problems in themselves such as fear of war and insecurity and finally ways in which regulatory schemes such as disarmament can be put to use to solve some of those problems Paper edition unseen 22 50 Annotation copyrighted by Book News Inc Portland OR

**Arms Control and Disarmament Activities, 98th Congress** United States. Congress. House. Committee on Armed Services. Procurement and Military Nuclear Systems Subcommittee. Special Panel on Arms Control and Disarmament,1985

**Department of Defense Appropriations for Fiscal Year 1984: Arms Control and Disarmament Agency** United States. Congress. Senate. Committee on Appropriations. Subcommittee on Department of Defense,1983

**The Role of Arms Control in U.S. Defense Policy** United States. Congress. House. Committee on Foreign Affairs,1984

**Inevitable Progress** Barrett Williams,ChatGPT,2025-08-16 Unveil the intricate dance between innovation and security with Inevitable Progress an enlightening exploration of how technology shapes the world of arms control Delve into humanity s relentless march towards

progress faced with both opportunities and ethical dilemmas that could redefine the future of warfare and peace Begin your journey by understanding the core of technological innovation Learn how history has repeatedly demonstrated the dual use nature of advancements where breakthroughs intended for improvement can equally serve more sinister ends From the origins of arms control efforts to today's challenges discover the evolution of treaties agreements and the obstacles to global cooperation The intersection of technology and arms control is unavoidable Explore the seismic impact of digital warfare in the cybersecurity realm the role of AI in military applications and the ethical quagmire surrounding autonomous weapons Biotechnology unveils yet another layer of complexity with potential applications ranging from groundbreaking to terrifying As cyberwarfare redefines battlefields navigate the landscape of international cyber conflict Meanwhile outer space once a realm of wonder emerges as a potential warzone demanding new treaties and cooperation to manage this critical frontier Economic forces fuel arms innovation Understand the motivations behind defense budgets the involvement of private sectors and the broader dynamics of the global arms trade Examine drones a case study in modern warfare's evolution illustrating tactical brilliance alongside regulatory hurdles Collaboration transcends borders through joint military research and successful multinational treaties Examine how non governmental organizations work tirelessly to advocate for arms control building a global network striving for peace Balancing secrecy and transparency remains a delicate art essential for national security while fostering trust Ultimately public perception and media shape the policies that guide our future By engaging in these critical discussions you can anticipate and influence potential trajectories of technological growth Inevitable Progress invites you to envision and participate in crafting a future where innovation becomes the cornerstone of lasting peace

**Bulletin of the Atomic Scientists**, 1979-01 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world **Hearings** United States. Congress. House. Committee on Science and Astronautics, 1971 The Invention of Technological Innovation Benoît Godin, 2019 p p1 margin 0 0px 0 0px 0 0px font 10 0px Arial This timely book provides an intellectual and conceptual history of a key representation of innovation technological innovation Tracing the history of the discourses of scholars practitioners and policy makers and exploring how and why innovation became defined as technological Benoît Godin studies the emergence of the term its meaning and its transformation and use over time *Weapons and the Law of Armed Conflict* William H. Boothby, 2016 Fully updated to include recent developments in the law of armed conflict this volume interprets the rules governing the use of weapons discusses the factors influencing developments in the law and contextualizes the debate over the direction of weapons law *International Arms Control* Coit D. Blacker, Stanford Arms Control Group, 1984 Completely revised and updated this is an exhaustive analysis of national and international arms control its history philosophy achievements and future prospects as well as its political military and economic ramifications Includes the complete text of the SALT II treaty

and texts of major arms control agreements ISBN 0 8047 1211 5 45 00 ISBN 0 8047 1212 0 pbk 16 95      **Tacit Bargaining, Arms Races, and Arms Control** George W. Downs, David M. Roache, 2025-10-01 When most people including social scientists reflect on the ways that nations resolve their differences they tend to think in terms of polar alternatives war versus negotiation This perspective ignores a third path tacit bargaining which is applicable as this book shows to a wide variety of international issues and is especially germane to the problem of treaty maintenance      Bulletin of the Atomic Scientists, 1984-01      *Defense Contracts* Michael Johnson, AI, 2025-03-03 *Defense Contracts* investigates the global defense industry exploring whether it is driven by genuine security needs or by economic and political ambitions This sector is one of the most influential and opaque with government contracts fueling its operations The book unveils how geopolitical events shape the demand for military goods directly impacting the industry's growth Did you know that the pursuit of profit and strategic advantage can sometimes overshadow genuine security needs leading to questionable spending and heightened international tensions The book dissects the complex web of government contracts profiles major defense corporations and analyzes the impact of geopolitics It begins by introducing the defense industry's principles and historical evolution then moves into an analysis of government contracting processes Readers will find detailed case studies of leading defense corporations followed by an exploration of geopolitical flashpoints and global trends that influence defense spending Understanding the dynamics of arms trade and defense spending is critical for anyone interested in global security and political economy The book's unique value lies in its data driven perspective moving beyond simplistic narratives to reveal the underlying economic and political imperatives shaping the industry By drawing connections between political science economics and international relations *Defense Contracts* provides a holistic view of the forces at play making it a valuable resource for students scholars policymakers and anyone seeking a deeper understanding of this critical sector      The Scientific-Technological Revolution and Soviet Foreign Policy Erik P. Hoffmann, Robbin F. Laird, 2016-06-23 *The Scientific Technological Revolution and Soviet Foreign Policy* explains the effects of the worldwide scientific technological revolution STR on Soviet foreign policy under the collective leadership of Leonid Brezhnev Organized into five chapters this book carefully examines Soviet views of the relationship of STR with political economic and military dimensions of peaceful coexistence and detente This text also evaluates the impact of scientific discoveries technological innovations foreign economic relations strategic arms development and instability in Third World countries Some of the functions performed by Soviet perspectives on scientific technical change and international politics are also reported      **Technology, Strategy, And Arms Control** Wolfram F Hanrieder, 2019-06-12 Focusing on the most urgent issues of arms control this collection of essays discusses the East West military balance the nature of U S Soviet relations the political dynamics of developments in weapons technology the problems that conflicting national security policies pose for the management of the Western alliance the influence of U S dom

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