



The Relations between Defence and Civil Technologies

Edited by

Philip Gummett and Judith Reppy

NATO ASI Series

Relations Between Defence And Civil Technologies

Aaron L. Friedberg



Relations Between Defence And Civil Technologies:

The Relations between Defence and Civil Technologies Philip Gummert, Judith Reppy, 2013-03-09 This book arises from a meeting held at Wiston House Sussex UK in September 1987 The meeting brought together academic governmental and industrial experts from eight countries to discuss the increasingly important sUBject of the relations between civil and defence technologies It was primarily funded under the Advanced Research Workshops Programme of NATO s Scientific Affairs Division and was the first science policy workshop funded by the Programme Additional financial support came from the Leverhulme Trust The choice of topic of speakers and finally of papers to be published was entirely ours The conclusions reached were our own and those of the participants They were not in any way guided by NATO nor do they represent NATO policy We speak for all the participants in offering our thanks to the NATO SCientific Affairs Division especially Secretary General Durand and Dr Craig Sinclair for nei r generosity and encouragement Without them this book would not exist We thank the Leverhulme Trust for enabling assistance to be provided to the Workshop Directors in the form of Iain Bate who himself played a major part in the success of the meeting The staff of Wiston House must also be thanked for prOviding an admirable environment for the meeting For secretarial support prior to the meeting we thank Gill Miller and Lesley Price Finally we offer special thanks to Mrs Yvonne Aspinall for converting all the papers in whatever state they were presented into camera ready copy with such professionalism and gOOD humour

European Armaments Collaboration Ron Matthews, 2013-10-15 First published in 1992 The changing strategic environment of the 1990s has been characterised by events such as the Middle East conflagration and super power disarmament which represent the two opposing ends of the present security spectrum The framing of appropriate defence policies now depends on increased NATO industrial defence restructuring and cooperation especially within Europe This book identifies explains and analyses the key issues involved in Europe s defence industrial reorganisation progress It tackles head on controversial issues such as divergences between practice and policy in NATO US European positions the high costs of collaborative ventures competition vs concentration and the complexities of adopting an European defence consensus within NATO At a time when the diminution of NATO s defence industrial base goes hand in hand with product reorientation and specialization this book provides concise critical and contemporary assessment of European and NA TO collaborative issues

Beyond Deterrence Frank L. Gertcher, 2020-07-09 This book is designed for people who wish to increase their understanding of the political economy of nuclear weapon production and proliferation It explains the role of military political and economic incentives in perpetuating the continued growth of worldwide nuclear arsenals

Mobilizing the Information Society Robin Mansell, William Edward Steinmueller, 2000 This work offers an assessment of progress made towards the information society It begins from the premise that the construction of such a society in Europe is a dynamic process and that the journey towards a society so dependent upon digital information is far from straightforward

Technology Transfer Dietrich Schroer, Micro

Elena,2018-02-06 This title was first published in 2000 The theme of this collection of essays is technology transfer The topic has three major aspects the interchange of technologies between military and civilian applications spin off dual use conversion and diversification fall under this heading the proliferation of military arms which could occur either through arms races between developed nations or through the transfer of military technology from developed arms industries to less developed nations proliferation arms races and arms control agreements fall under this heading and the transfer of civilian technologies from developing nations to less developed nations The expression North South transfer and the idea of development come under this final section The essays offer examination of all three aspects **Spin-Off, Dual-Use and**

Conversion Jakob Lorentzi,Magnus Nilsson,1994-12 Explores the meaning significance of the concepts of spin off dual use conversion A case study at Ericsson Radar Electronics also illustrates the problems opportunities of diversification

America Inc.? Linda Weiss,2014-04-01 For more than half a century the United States has led the world in developing major technologies that drive the modern economy and underpin its prosperity In America Inc Linda Weiss attributes the U S capacity for transformative innovation to the strength of its national security state a complex of agencies programs and hybrid arrangements that has developed around the institution of permanent defense preparedness and the pursuit of technological supremacy She examines how that complex emerged and how it has evolved in response to changing geopolitical threats and domestic political constraints from the Cold War period to the post 9 11 era Weiss focuses on state funded venture capital funds new forms of technology procurement by defense and security related agencies and innovation in robotics nanotechnology and renewable energy since the 1980s Weiss argues that the national security state has been the crucible for breakthrough innovations a catalyst for entrepreneurship and the formation of new firms and a collaborative network coordinator for private sector initiatives Her book appraises persistent myths about the military commercial relationship at the core of the National Security State Weiss also discusses the implications for understanding U S capitalism the American state and the future of American primacy as financialized corporations curtail investment in manufacturing and innovation **"Rich Nation, Strong Army"** Richard J. Samuels,2018-08-06 Since World War II Japan has become not only a

model producer of high tech consumer goods but also despite minimal spending on defense a leader in innovative technology with both military and civilian uses In the United States nearly one in every three scientists and engineers was engaged in defense related research and development at the end of the Cold War but the relative strength of the American economy has declined in recent years What is the relationship between what has happened in the two countries And where did Japan s technological excellence come from In an economic history that will arouse controversy on both sides of the Pacific Richard J Samuels finds a key to Japan s success in an ideology of technological development that advances national interests From 1868 until 1945 the Japanese economy was fired by the development of technology to enhance national security the rallying cry Rich Nation Strong Army accompanied the expanded military spending and aggressive foreign policy that led to the

disasters of the War in the Pacific Postwar economic planners reversed the assumptions that had driven Japan's industrialization Samuels shows promoting instead the development of commercial technology and infrastructure By valuing process improvements as much as product innovation the modern Japanese system has built up the national capacity to innovate while ensuring that technological advances have been diffused broadly through industries such as aerospace that have both civilian and military applications Struggling with the uncertainties of a post Cold War economy the United States has important lessons to learn from the way Japan has subordinated defense production yet emerged as one of the most technologically sophisticated nations in the world The Japanese like the Venetians and the Dutch before them show us that butter is just as likely as guns to make a nation strong but that nations cannot hope to be strong without an ideology of technological development that nourishes the entire national economy Swords Into Dow Shares Rachel

Weber, 2018-03-05 Contemporary legal doctrine holds that corporate managers have obligations first and foremost to maximize profits for their shareholders This doctrine is based on the assumption that shareholders alone bear the financial risks and contribute the equity necessary for production But what if other groups contribute assets and also risk losing their investments What if other groups actually shelter shareholders from financial risks Such is the case with the nation's prime defense contractors By examining the case of defense contracting where the federal government and indirectly the taxpayers assume most of the risks and costs of producing weaponry Rachel Weber critiques the assumptions underlying our system of corporate governance The Department of Defense provides contracts for billions of dollars specialized components and facilities interest subsidies tax breaks and regulatory relief These public contributions make the record shareholder returns and executive compensation packages of the early 1990s all the more problematic This book follows the case of General Dynamics the nation's largest military shipbuilder and considered a trendsetter in the industry for its explicit shareholder orientation The behavior of contractors like General Dynamics in the post Cold War period raises serious concerns about the private stewardship of public funds How can the government make contractors accountable to other public interests In Swords into Dow Shares Rachel Weber offers some original suggestions for redirecting defense resources to foster innovation decrease the tax burden of military spending and help to retain and create high wage jobs in a civilian industrial economy Restructuring of Arms Production in Western Europe Stockholm International Peace Research Institute, 1992

Profound changes are occurring in the structure of arms production in Western Europe Concentration is increasing at a fast pace Small producers are disappearing and even large ones are opting out of the market The various national arms industries long operating in protective environments are rapidly internationalizing Three factors combine to bring about this change East West detente the creation of the Single European Market and the constant pressure of increasingly complex technology In this book experts describe how the framework for producing arms in Western Europe is altered and how various actors firms governments and trade unions are adapting to the new situation The book presents detailed analyses of all the arms

producing countries in Western Europe In addition to describing recent changes the authors speculate on the implications of these for the balance of power in Western Europe the relations between Western Europe and the United States arms exports to the Third World and problems of converting from military to civilian production The appendices include the SIPRI list of the 50 largest arms producing companies in Western Europe data on mergers and acquisitions procurement expenditure and exports of major weapons selections from treaties and other official documents relevant to current and future regulation of West European arms production and a select bibliography *The Regulation of Science and Technology* Helen Lawton Smith, 2001-11-14 The worst chemical disaster ever could be happening right now In India and Bangladesh between forty and eighty million people are at risk of consuming too much arsenic from well water that might have already caused one hundred thousand cancer cases and thousands of deaths Many millions elsewhere in South East Asia and South America may soon suffer a similar fate *Venomous Earth* is the story of this tragedy the geology the biology the politics and the history It starts in Ancient Greece touches down in today's North America and takes in William Morris alchemy farming medicine mining and a cosmetic that killed two popes Dual Innovation Systems Francois-Xavier Meunier, 2021-02-17 Technical superiority is one of the keys to military domination Thus defense industries have supported the development of increasingly efficient systems and made significant contributions to technical progress However since the late 1980s defense industries technological initiative has been questioned and new sources of innovation have been sought by turning to the civilian sphere A duality was born from this marriage of defense and civil innovation which developed their synergies in order to improve the innovation process in both areas *Dual Innovation Systems* uses a systemic approach to investigate this dual approach to innovation and how it promotes improvements in the research and development processes of the defense and civilian areas It also presents a variety of tools for measuring the performance of a dual innovation system **Military Production and Innovation in Spain** Jordi Molas-Gallart, 1992 *Military Production and Innovation in Spain* extends the scope beyond the traditional analysis of arms producers to include components and sub systems manufacturers It combines a description of the changes experienced by Spanish military production with an analysis of its deeply rooted structural characteristics The book provides an in depth exploration of the Spanish military related industry its links with the rest of the economy and its potential role as a technological engine for the Spanish economy **Encyclopedia of Government and Politics** Mary Hawkesworth, Maurice Kogan, 2002-09-11 Provides a balanced comprehensive account of contemporary trends in world regional and nation state government and politics Captures the global changes both theoretical and factual of the past three decades to give an unprecedented overview of political science and political affairs Clearly and incisively written to meet the needs of students lecturers and practitioners at all levels Helpful bibliographies of new and classic material and suggestions for further reading Extensive index of Topics and People Provides a comprehensive introduction to both the theoretical and practical issues of government and politics It will be an essential purchase for libraries with in depth collections in these

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The Business of Projects Andrew Davies, Michael Hobday, 2005-10-27 The Business of Projects broke ground when it was first published in 2005 by showing how leading businesses create and implement projects to drive strategy and innovation Projects are used to coordinate activities with customers and suppliers and ensure that organisations become more dynamic and adaptable The book extends the resource based view of the firm to focus on the business lessons learned from the design and production of high value complex products and systems CoPS which have always been project based As well as frameworks and management tools it provides case studies of high technology industries such as telecommunications flight simulation and medical devices to show how projects are used to achieve strategic objectives perform systems integration organise productive activities manage software achieve organisational learning and deliver solutions for customers This book is essential reading for project professionals academics students engineers managers and policy makers seeking a strategic innovative perspective on projects *Encyclopedia of Government and Politics* M. E.

Hawkesworth, Maurice Kogan, 1992 *In the Shadow of the Garrison State* Aaron L. Friedberg, 2012-01-06 War or the threat of war usually strengthens states as governments tax draft soldiers exert control over industrial production and dampen internal dissent in order to build military might The United States however was founded on the suspicion of state power a suspicion that continued to gird its institutional architecture and inform the sentiments of many of its politicians and citizens through the twentieth century In this comprehensive rethinking of postwar political history Aaron Friedberg convincingly argues that such anti statist inclinations prevented Cold War anxieties from transforming the United States into the garrison state it might have become in their absence Drawing on an array of primary and secondary sources including newly available archival materials Friedberg concludes that the weakness of the American state served as a profound source of national strength that allowed the United States to outperform and outlast its supremely centralized and statist rival the Soviet Union Friedberg's analysis of the U S government's approach to taxation conscription industrial planning scientific research and development and armaments manufacturing reveals that the American state did expand during the early Cold War period But domestic constraints on its expansion including those stemming from mean self interest as well as those guided by a principled belief in the virtues of limiting federal power protected economic vitality technological superiority and public support for Cold War activities The strategic synthesis that emerged by the early 1960s was functional as well as stable enabling the United States to deter contain and ultimately outlive the Soviet Union precisely because the American state did not limit unduly the political personal and economic freedom of its citizens Political scientists historians and general readers

interested in Cold War history will value this thoroughly researched volume Friedberg's insightful scholarship will also inspire future policy by contributing to our understanding of how liberal democracy's inherent qualities nurture its survival and spread

The Arms Production Dilemma Randall Forsberg, 1994 The studies show how military strategy planned forces and the age of systems in the current inventory affect the domestic demand for new production how the recent drop in domestic demand affects arms industries and the extent to which governments and firms in the arms producing nations are turning to exports to sustain the industries In the shrinking arms market of the post Cold War era countries with advanced arms industries face difficult choices concerning force size arms production arms export and defense industrial capacity This book explores the links among these issues through a detailed study of the combat aircraft industries in the United States Russia Britain France Germany Italy and Sweden the seven countries that develop produce and export all of the world's technologically advanced weapon systems The studies show how military strategy planned forces and the age of systems in the current inventory affect the domestic demand for new production how the recent drop in domestic demand affects arms industries and the extent to which governments and firms in the arms producing nations are turning to exports to sustain the industries Stunning changes in Russia's combat aircraft forces industry and strategy are detailed here for the first time as are expected future Russian combat aircraft exports to China Newly compiled data also show that in the United States and Russia and globally arms production for export will exceed production for domestic use for the first time in history starting in 1995 Arms production is thus increasingly dominated by commercial rather than security interests Ultimately at issue is whether governments will exploit the opportunity offered by the dramatic post Cold War contraction of the world arms market to reduce their armed forces and constrain international arms trade while shrinking the arms industry or keep pushing arms exports that generate new threats and justify larger armed forces more arms production and bigger arms industries

Science, Technology and Global Governance John R. De La Mothe, 2014-04-23 Science technology and innovation have long been key factors in the competitive advantage of nations Today however the new international political economy is being increasingly driven by science and technology in new ways Integration globalization and internationalization have all become watchwords for a series of dynamic processes in which science and technology are deeply implicated As a result not only are the policies of national governments being exposed in terms of the limits of their sovereignty but science and technology are being increasingly implicated in a wide array of public issues ranging from security privacy development and economic growth to employment environment foreign policy and geopolitics Clearly in today's emerging world the ways in which governments organize their science and technology policy their science and technology intelligence and their research advisory structures and resources matter more today than ever before In turn the contract between science and democracy is being rapidly redefined This book is the first to comprehensively discuss these critical issues

Science, Technology and Governance John De la Mothe, 2001 This anthology examines Love's Labours Lost

from a variety of perspectives and through a wide range of materials. Selections discuss the play in terms of historical context, dating, and sources; character analysis; comic elements and verbal conceits; evidence of authorship; performance analysis; and feminist interpretations. Alongside theater reviews, production photographs, and critical commentary, the volume also includes essays written by practicing theater artists who have worked on the play. An index by name, literary work, and concept rounds out this valuable resource.

Unveiling the Power of Verbal Artistry: An Emotional Sojourn through **Relations Between Defence And Civil Technologies**

In a world inundated with monitors and the cacophony of fast interaction, the profound power and mental resonance of verbal beauty usually fade in to obscurity, eclipsed by the constant assault of noise and distractions. Yet, situated within the musical pages of **Relations Between Defence And Civil Technologies**, a captivating function of literary splendor that impulses with organic emotions, lies an wonderful trip waiting to be embarked upon. Published by a virtuoso wordsmith, that mesmerizing opus books readers on a psychological odyssey, gently revealing the latent potential and profound influence stuck within the complex web of language. Within the heart-wrenching expanse of this evocative analysis, we will embark upon an introspective exploration of the book is central subjects, dissect its charming publishing style, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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