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TECHNOLOGY AND SECURITY IN THE 21st CENTURY

A DEMAND-SIDE PERSPECTIVE

ANITAV MALLIK

Technology And Security In The 21st Century A Demand Side Perspective

Puja Mehta

Technology And Security In The 21st Century A Demand Side Perspective:

Technology and Security in the 21st Century Amitav Mallik,2004 The immense impact of technology on both warfare and security has been clearly demonstrated and has heightened concerns relating to the proliferation of military technology and misuse by irresponsible actors Technology control regimes are a vital component of national security strategies This report presents evidence of the increasing relevance of technology in the 21st century and a brief review of the control regimes as well as the perspectives of progressive developing nations It highlights the need for a new approach to the management of technology and security issues Meetingfuture challenges to arms control and non proliferation will require wider cooperation among nations in a rapidly changing and interdependent world in which some of the new technologies will further accentuate security sensitivities The report advocates the abandonment of cold war mindsets andmakes a case for a broader cooperative approach to the management of technology controls International cooperation will be vital for achieving the objectives of non proliferation disarmament and global socio economic progress and will facilitate steps towards the elimination of weapons of massdestruction and the dangers posed by terrorism thereby fostering enhanced international peace and stability

Technology and Security in the 21st Century Amitav Mallik,2004 **The Nordic Countries and the European Security and Defence Policy** Alyson J. K. Bailes,Gunilla Herolf,Bengt Sundelius,2006 In 1999 the EU decided to develop its own military capacities for crisis management This book brings together a group of experts to examine the consequences of this decision on Nordic policy establishments as well as to shed new light on the defence and security issues that matter for Europe as a whole 21st Century Prometheus Maurizio Martellini,Ralf Trapp,2020-03-11 This book describes the evolving CBRN risk landscape and highlights advances in the core CBRN technologies including when combined with improvised explosive devices CBRNe threats It analyses how associated technologies create new safety and security risks challenging certain assumptions that underlie current control regimes The book also shows how technologies can be enablers for more effective strategies to mitigate these risks 21st century safety and security risks emanating from chemical biological radiological and nuclear materials whether resulting from natural events accidents or malevolent use are increasingly shaped by technologies that enable their development production or use in ways that differ from the past Artificial intelligence the use of cyberspace the revolution in the life sciences new manufacturing methods new platforms and equipment for agent delivery hypersonic weapons systems information tools utilised in hybrid warfare these and other technologies are reshaping the global security environment and CBRN landscape They are leading to a growing potential for highly targeted violence and they can lead to greater instability and vulnerability worldwide At the same time technology offers solutions to manage CBRN risks Examples are faster detection more accurate characterisation of the nature and origin of CBRN agents new forensic investigation methods or new medical treatments for victims of CBRN incidents New educational concepts help to foster a culture of responsibility in science and technology and strengthen governance New training methods help develop

practical skills to manage CBRN risks more effectively The book concludes that there is a growing need for a holistic framework towards CBRN risk mitigation Traditional arms control mechanisms such as global regional or bilateral treaties and export controls are still needed as they provide a necessary legal and institutional framework But laws and technology denial alone will not suffice and institutional mechanisms can at times be weak Given the pace of technological progress and the diffusion of critical knowledge tools and materials policymakers must accept that CBRN risks cannot be eliminated altogether Instead society has to learn to manage these risks and develop resilience against them This requires a softer broadly based multi stakeholder approach involving governments industry the research and development communities educators and civil society Furthermore educating policymakers that cutting edge technologies may seriously affect global strategic stability could create incentives for developing a more creative and contemporary arms control strategy that fosters cooperation rather than incremental polarisation Cyber Technological Paradigms and Threat Landscape in India Ramnath Reghunadhan,2022-02-09 The book deals with technological governance of cyberspace and threat landscape with a special focus on the Indian context It provides a historical and chronological understanding of cyber threats across the world and their impact on the nation states It places the cyber technological paradigms and platforms in various theoretical frameworks The core section of the book deals with the cyber technological paradigms i e governance policing and diplomacy in Digital India The scenario of artificial intelligence AI in India is also dealt with comparing AI in India with those of international actors The book analyses in detail the overall structural and institutional frameworks entailing the need to leap towards what is considered as Reimagining India It provides policy recommendations and suggestions on improving various actions initiatives and resilience related taken in order to deal with the chaotic features of cyber technological threat landscape in India **The Law of Arms Control and the International Non-proliferation Regime** Tom Coppen,2016-12-08 Nuclear proliferation poses a serious threat to international peace and security The non proliferation regime is the body of public international law that aims to counter this threat It has been a cornerstone of global security for decades This book analyses its main instruments The book focuses on the Nuclear Non proliferation Treaty international trade controls and the International Atomic Energy Agency It describes the internal mechanics of these mechanisms their development and their strengths and weaknesses It shows how they together are the basis of a political legal order that is more than the sum of its parts offering new insights on the role of international law in an area dominated by security driven politics **Trading with the Enemy** Hugo Meijer,2016-02-02 In light of the intertwining logics of military competition and economic interdependence at play in US China relations Trading with the Enemy examines how the United States has balanced its potentially conflicting national security and economic interests in its relationship with the People s Republic of China PRC To do so Hugo Meijer investigates a strategically sensitive yet under explored facet of US China relations the making of American export control policy on military related technology transfers to China since 1979 Trading with the Enemy is the first monograph on this

dimension of the US China relationship in the post Cold War Based on 199 interviews declassified documents and diplomatic cables leaked by Wikileaks two major findings emerge from this book First the US is no longer able to apply a strategy of military technology containment of China in the same way it did with the Soviet Union during the Cold War This is because of the erosion of its capacity to restrict the transfer of military related technology to the PRC Secondly a growing number of actors in Washington have reassessed the nexus between national security and economic interests at stake in the US China relationship by moving beyond the Cold War trade off between the two in order to maintain American military preeminence vis vis its strategic rivals By focusing on how states manage the heterogeneous and potentially competing security and economic interests at stake in a bilateral relationship this book seeks to shed light on the evolving character of interstate rivalry in a globalized economy where rivals in the military realm are also economically interdependent **SIPRI Yearbook 2007** Stockholm International Peace Research Institute,2007 The 38th edition of the SIPRI Yearbook analyses developments in 2006 in Security and conflicts Military spending and armaments Non proliferation arms control and disarmament The SIPRI Yearbook contains extensive annexes on the implementation of arms control and disarmament agreements and a chronology of events during the year in the area of security and arms control The annual accounts and analyses are extensively footnoted providing a comprehensive bibliography in each subject area *Optimum Size of Government Intervention* Ramesh Chandra Das,2021-08-17 This book critically examines the optimum range and duration of government interventions in the economic activities of a modern state based on theoretical and empirical frameworks and assesses their role and extent in various economies With a special focus on emerging economies across the globe it discusses themes such as income growth social sector development good governance and economic progress threshold limits optimum budget policy and economic growth sustainable distributional managements in public projects food for work programs agricultural infrastructure development technological progress and economic growth and distributional equities The policy suggestions provided here offer helpful blueprints for developmental projects Rich in data and figures the book addresses sector specific case studies like healthcare irrigation and agriculture infrastructure taxation and economic growth and public sector enterprises It will be an excellent read for scholars and researchers of economics Indian economics macroeconomics political economy public policy political science and management development studies development economy and governance It will also be useful to policymakers administrative officials and government and corporate bodies **Budgeting for the Military Sector in Africa** Wuyi Omitoogun,Eboe Hutchful,2006 In this comprehensive study 15 African experts describe and analyse the military budgetary processes and degree of parliamentary oversight and control in nine countries of Africa spanning across all the continent s sub regions Each case study addresses a wide range of questions such as the roles of the ministries of finance budget offices audit departments and external actors in the military budgetary processes the extent of compliance with standard public expenditure management procedures and how well official military expenditure figures

reflect the true economic resources devoted to military activities in these countries

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