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Military Technology and Defense Manpower New Thinking and American Defense Technology Defense Technology Defense Technological Innovation The Defense Technology Base Dual Use Technology: A Defense Strategy for Affordable, Leading-Edge Technology Holding the Edge Defense technology development management process can be strengthened for new technology transition programs : report to congressional committees. Technology and National Security Review of the U.S. Department of Defense Air, Space, and Supporting Information Systems Science and Technology Program Holding the Edge Manufacturing Technology Programs Being Undertaken by the Department of Defense and the Department of Commerce Military Laser Technology for Defense Technological Change and the Future of Warfare New Thinking and American Defence Technology Making IT Happen The defense technology base : introduction & overview : a special report of OTA's assessment on maintaining the defense technology base. Fundable Knowledge Manufacturing Technology Building future security : strategies for restructuring the defense technology and industrial base. *Martin Binkin Ashton B. Carter Asa A. Clark IV Bharat Rao United States. Congress. Office of Technology Assessment United States. Congress. Office of Technology Assessment James Kadtke National Research Council United States. Congress. Senate. Committee on Armed Services. Subcommittee on Defense Industry and Technology Alastair D. McAulay Michael E. O'Hanlon Carnegie Commission on Science, Technology, and Government*

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eminent defense officials scholars and military officers offer a thoughtful comprehensive and well balanced evaluation of u s defense technology in this highly informative volume they carefully analyze such difficult questions as what technologies should be pursued and for what purposes how should these technologies be pursued and integrated into u s defense posture what are the implications of america s increasing reliance on advanced technology throughout the book the contributors provide cogent answers to these questions and more as they seek to illuminate understanding clarify debates and promote contributions of advanced technology to u s defense and security defense technology offers both the interested citizen and the serious student of u s national security affairs a broad range of reasonable positions on the problems prospects and consequences of america s reliance on advanced technology in its national defense in its six comprehensive parts defense technology offers vital information on its controversial topic part one introduces the role of technology in u s national security next the contributors set the context of defense technology its importance its context in u s approaches to foreign and defense policy its implications in international affairs and the dilemmas it poses for u s policymakers part three and four present assessments of opportunities for exploiting advanced technologies in both strategic and conventional military force capabilities in part five experts examine various approaches for organizing and managing the development and integration of defense technology into the u s defense sector the final part offers insights into the broad implications that emerge from the conclusions about these important questions

defense technological innovation describes the emerging paradigm for innovation at the us department of defense and the consequent impacts on its stakeholders leveraging a combination of prior research archival data first person observations and interviews the authors identify practices and themes characterizing the key trends in defense innovation describe current organizational approaches and practices and develop a theoretical framework that elucidates the competencies required to underwrite defense innovation objectives the findings therein are relevant to any large technology driven organization contending with the implications of rapid change in the high tech landscape

rapid advances in commercial technology combined with declining u s defense budgets have in many cases rendered dod s traditional defense unique approach to technology development and procurement less affordable and less effective than in the past it is critical that defense programs take advantage of cost conscious market driven commercial production and leverage the huge investments in leading edge process technologies made by private industry it is also important that defense technologies and systems keep pace with the rapid product development cycles driven in critical areas by a highly dynamic commercial sector dual use technology policy is a key component of dod s investment strategy for maintaining the performance superiority and affordability of u s military forces in this new technological and economic environment it builds upon the successful dod acquisition reform effort elements of the dual use technology investment strategy serve to 1 ensure that key elements of the domestic commercial technology base that are critical for national security remain at the leading edge 2 support the transitioning of defense sponsored technology and the integration of military production with the commercial base and 3 facilitate insertion of commercial technologies into

military systems 1

the authors present arguments about the role that technology and science will play within the international scene and globalization corridor as a way to develop a national security strategy for years to come part of the discussion observes the past present and future of technology innovation within global governments including the sharing of data artificial intelligence ai military policy defense strategies and more for instance globalization of science and technology emerging and unpredictable threats both manmade and natural conventional and emerging weapons of mass destruction and an inversion of technology flow from the private to public sectors all present challenges to our national security many countries are now dramatically increasing their investments in science technology and commercialization particularly in asia and including many nontraditional players such as vietnam and singapore from a grand strategic perspective one might observe that in the decades to come in a world dominated by pervasive advanced technologies the countries that are most able to create acquire and utilize these disruptive technologies will lead the world this technological capacity will be one of if not the most important global resources technological capacity will become the new oil other topical related products can be found here armed robotics emergence weapons systems life cycles analysis and new strategic realities enhancing identity development at senior services colleges military communications a test for technology closer than you think the implications of the third offset strategy for the u s army

since the mid 1940s when vannevar bush and theodore von karman wrote science the endless frontier and toward new

horizons respectively there has been a consensus that strong department of defense support of science and technology s t is important to the security of the united states during the cold war as it faced technologically capable adversaries whose forces potentially outnumbered u s forces the united states relied on a strong defense s t program to support the development of technologically superior weapons and systems that would enable it to prevail in the event of conflict since the end of the cold war the united states has relied on its technological superiority to maintain a military advantage while at the same time reducing the size of its forces over the past half century creating and maintaining a technologically superior military capability have become fundamental to u s national security strategy and investment in s t has become a basic component of the defense budget in late 1998 congress asked the secretary of defense to conduct a study in cooperation with the national research council nrc on the s t base of the u s department of defense dod congress was particularly concerned about areas of the s t program related to air systems space systems and supporting information systems its concern was based on the air force s reduction of its s t program from the largest of the three military service programs to the smallest congress also wanted to ensure that the air force maintained an appropriately sized s t workforce in late 1999 the deputy under secretary of defense for science and technology asked the nrc to conduct a study to explore these issues

recent advances in ultra high power lasers including the free electron laser and impressive airborne demonstrations of laser weapons systems such as the airborne laser have shown the enormous potential of laser technology to revolutionize 21st century warfare military laser technology for defense includes only unclassified or declassified

information the book focuses on military applications that involve propagation of light through the atmosphere and provides basic relevant background technology it describes high power lasers and masers including the free electron laser further military laser technology for defense addresses how laser technology can effectively mitigate six of the most pressing military threats of the 21st century attack by missiles terrorists chemical and biological weapons as well as difficulty in imaging in bad weather and threats from directed beam weapons and future nuclear weapons the author believes that laser technology will revolutionize warfare in the 21st century

in light of the spectacular performance of american high technology weapons in the 1991 persian gulf war as well as the phenomenal pace of innovation in the modern computer industry many defense analysts have posited that we are on the threshold of a revolution in military affairs rma the issue has more than semantic importance many rma proponents have begun to argue for major changes in pentagon budgetary priorities and even in american foreign policy more generally to free up resources to pursue a transformed u s military and to make sure that other countries do not take advantage of the purported rma before we do this book takes a more measured perspective beginning with a survey of various types of defense technologies it argues that while important developments are indeed under way most impressively in electronics and computer systems the overall thrust of contemporary military innovation is probably not of a revolutionary magnitude some reorientation of u s defense dollars is appropriate largely to improve homeland defense and to take advantage of the promise of modern electronics systems and precision guided munitions but radical shifts in u s security policy and pentagon budget priorities appear unwarranted especially if those shifts would come at

the expense of american military engagement in overseas defense missions from korea to iraq to bosnia

the center for technology and national security policy has investigated how the department of defense can enhance its engagement with the commercial market while meeting requirements for operations a chief complaint from information technology companies is that they do not know what the services need this report is a primer for commercial providers to gain some understanding of the military s thinking about military information technology and some of the programs it foresees for the future chapter 1 focuses on the development of critical technologies required for ground tactical operations it presents the army s efforts to enhance data and information exchange among systems of systems on the battlefield key among these is the development of mobile ad hoc networks and applications the discussion in chapter 2 emphasizes the technical objectives of the navy s forcenet to meet its operational capabilities characterized broadly as sea strike sea shield and sea basing the chapter focuses on the functionalities that forcenet requires and the technologies needed to produce these functions chapter 3 discusses activities in the air force research laboratory and the air force battle labs that support the joint battlespace infosphere chapter 4 provides a detailed overview of the issues and requirements necessary to insure that networking and information sharing occurs across the services this chapter characterizes the nature of the interoperability problem describes recent initiatives to ameliorate interoperability shortfalls and identifies interoperability challenges the unique problem of sharing information with allies and changing coalitions is addressed in chapter 5 in the context of nato operations the chapter describes nato s efforts to move into an age of information intensive military operations with particular attention on political decision making and the command and

control of distant multinational operations

knowledge is the basic output of the defense technology establishment in the united states it is what enables the development of weapon systems from this premise this volume explores the process of knowledge production in defense technology from the beginnings of the cold war to the present time produced through the process of research and development r d technical knowledge for defense is an economic commodity it is fundable in the sense of having future value like other commodities in the futures market it is purchased before it is produced but unlike those other commodities this knowledge is typically produced through the joint efforts of the customer and the vendor this study highlights two polar aspects of knowledge production technology development and technology transfer it centers on the present shifting concept of defense conversion that is redefining defense technology policy the book also includes cited documents pertaining to the transactions that engage customers and vendors in the process of knowledge production the documents constitute a literature of needs and claims and they reveal two chief properties problem formulation and tactical positioning apart from the substantive yield of these particular documents the strategy of evidence in this volume has broad implications for further study suggesting a means of analyzing knowledge production in other large social systems

the u s defense industrial base is deteriorating long lead times to procure weapon systems high costs uncertain quality and dependence on procurement of electronic components from other countries are symptoms of a decline in the

capability of the u s defense industrial base a primary cause of this decline is the failure of the department of defense dod and its contractors in the u s defense industry to invest sufficiently in manufacturing technology the lack of investment reflects dod s history of concentrating its resources and attention on product technology rather than process technology as we described in our initial report the role of the department of defense in supporting manufacturing technology development existing procurement policies and regulations do not provide sufficient investment incentives to contractors therefore direct funding for some manufacturing technology development will have to be provided by dod

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