



NATIONAL SECURITY

SPACE STRATEGY

Space And National Security

Lamont C. Colucci



Space And National Security:

Space and National Security Paul B. Stares, 1987 In this timely volume Paul Stares assesses the long term costs and benefits of developing ASAT weapons and the feasibility of alternative policies He examines in detail the military space programs of the United States and the Soviet Union and explores the potential military uses of space Publisher National Security Space Defense and Protection National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Committee on National Security Space Defense and Protection, 2016-09-30 It is not yet 60 years since the first artificial satellite was placed into Earth orbit In just over a half century mankind has gone from no presence in outer space to a condition of high dependence on orbiting satellites These sensors receivers transmitters and other such devices as well as the satellites that carry them are components of complex space systems that include terrestrial elements electronic links between and among components organizations to provide the management care and feeding and launch systems that put satellites into orbit In many instances these space systems connect with and otherwise interact with terrestrial systems for example a very long list of Earth based systems cannot function properly without information from the Global Positioning System GPS Space systems are fundamental to the information business and the modern world is an information driven one In addition to navigation and associated timing space systems provide communications and imagery and other Earth sensing functions Among these systems are many that support military intelligence and other national security functions of the United States and many other nations Some of these are unique government national security systems however functions to support national security are also provided by commercial and civil government space systems The importance of space systems to the United States and its allies and potential adversaries raises major policy issues National Security Space Defense and Protection reviews the range of options available to address threats to space systems in terms of deterring hostile actions defeating hostile actions and surviving hostile actions and assesses potential strategies and plans to counter such threats This report recommends architectures capabilities and courses of action to address such threats and actions to address affordability technology risk and other potential barriers or limiting factors in implementing such courses of action

Space and Security Peter L. Hays, 2011-03-03 This thorough examination of the roots and motivations for U S national security space policy provides an essential foundation for considering current space security issues During the Cold War era space was an important arena for the clashing superpowers yet the United States government chose not to station weapons there Today new space security dynamics are evolving that reflect the growing global focus upon the broad potential contributions of space capabilities to global prosperity and security Space and Security A Reference Handbook examines how the United States has developed and implemented policies designed to use space capabilities to enhance national security providing a clear and complete evaluation of the origins and motivations for U S national security space policies and activities The author explains the Eisenhower Administration s quest to develop high technology intelligence collection

platforms to open up the closed Soviet state and why it focused on developing a legal regime to legitimize satellite overflight for the purposes of gathering intelligence

The United States Space Force Lamont C. Colucci,2022-12-01 The United States Space Force the sixth branch of the armed forces will soon play a leading role in American foreign policy and will be necessary to protect its economic political and social interests at home and abroad This book argues that America s newest branch of the armed forces the United States Space Force will soon play a key strategic role in American foreign policy military and economic expansion and technological innovation Written by a leading expert on and member of the Space Force the book offers an introduction to the Space Force explains the urgent need for it and walks readers through what exactly the Space Force is and is not Drawing on dozens of interviews with high ranking members of the armed forces the author claims that in the future space will be the geopolitical center of world politics as such countries as the U S Russia and China jockey for control of it America must therefore set aside partisan politics to make space a top priority as a failure to do so will leave the U S and its citizens in a dangerous and vulnerable position on the world stage

Deep Black William E. Burrows,1988 They are on the cutting edge of technology the top secret billion dollar instruments of super power espionage They are spy satellites the means by which the super pwers keep tabs on each other in the deep black of space Excellent Highly recommended Booklist

Toward a New National Security Space Strategy Theresa Hitchens,2016-06-15 *Defense Space Activities* Davi M. D'Agostino,2008-08 The U S depends on space assets to support nat security activities as well as civil and commercial activities The DoD depends on space assets to support a wide range of military missions to include intelligence collection battlefield surveillance and mgmt global command control and communications and navigation assistance This report reviews the acquisition and requirements process of the DoD s Operationally Responsive Space concept The objective was to determine the extent to which DoD and the intelligence community have developed agreed upon and issued a National Security Space Strategy This performance audit was conducted from June 2007 through March 2008 Illustrations

The United States Space Force Lamont Colucci,2022-12 The United States Space Force the sixth branch of the armed forces will soon play a leading role in American foreign policy and will be necessary to protect its economic political and social interests at home and abroad This book argues that America s newest branch of the armed forces the United States Space Force will soon play a key strategic role in American foreign policy military and economic expansion and technological innovation Written by a leading expert on and member of the Space Force the book offers an introduction to the Space Force explains the urgent need for it and walks readers through what exactly the Space Force is and is not Drawing on dozens of interviews with high ranking members of the armed forces the author claims that in the future space will be the geopolitical center of world politics as such countries as the U S Russia and China jockey for control of it America must therefore set aside partisan politics to make space a top priority as a failure to do so will leave the U S and its citizens in a dangerous and vulnerable position on the world stage

The Politics of Space Security James Clay

Moltz,2019-04-16 Updated third edition An excellent work This history may be the best space summary currently in publication Journal of Military and Strategic Studies For more than sixty years countries have conducted military and civilian activities in space often for competitive purposes But they have not yet fought in this environment This book examines the international politics of the space age from 1957 to the present the reasons why strategic restraint emerged among the major military powers and how recent trends toward weaponization may challenge prior norms of conflict avoidance James Clay Moltz analyzes the competing demands of national interests in space against the shared interests of all spacefarers in preserving the safe use of space in the face of emerging threats such as man made orbital debris This new edition offers analysis of the 2011 to 2018 period including the second term of President Obama and the beginning of the Trump administration Focusing on great power competition and cooperation as well as questions related to the sustainability of current and future national space policies The Politics of Space Security is an authoritative history of the space age Praise for previous editions Most of this well written study is blessedly free from jargon a particularly valuable contribution to the space security debate given both the wide range of the historical dimensions and the incisive quality of its analysis Issues in Science and Technology An impressive and timely contribution to security studies it is difficult to find fault with this thoughtful and comprehensive volume Review of Policy Research **United States in Space** Andrew E. Olivea,2011 During the past fifty years U S leadership in space activities has benefited the global economy enhanced our national security strengthened international relationships advanced scientific discovery and improved our way of life Space capabilities provide the U S and our allies unprecedented advantages in national decision making military operations and homeland security Space systems provide national security decision makers with unfettered global access and create a decision advantage by enabling a rapid and tailored response to global challenges Moreover space systems are vital to monitoring strategic and military developments as well as supporting treaty monitoring and arms control verification This book examines the United States national space policy and national security strategy Publisher s description The Politics of Space Security James Clay Moltz,2026-08-18 As space becomes more crowded with nearly 10 000 active satellites operated by over sixty countries and hundreds of private companies preventing conflict in this strategic environment has become increasingly important The Politics of Space Security examines the history of the space age from its origins in national rocket programs of the 1920s and 1930s to the present day focusing in particular on the political military and diplomatic challenges affecting space security James Clay Moltz analyzes the competing demands of national interests in space against the shared interests of all spacefarers in preserving the safe use of space in the face of emerging threats such as man made orbital debris Since the publication of the first edition in 2008 this book has become recognized as a key source on the political history of the space age The fourth edition updates the book s coverage to include the period from 2019 to 2025 Major commercial developments in these years are examined such as the orbiting of SpaceX s Starlink mega constellation as well as initiatives

in space diplomacy and threats posed by growing military counterspace programs Additionally Moltz updates the academic literature to include significant works on space security published since the first edition

Space Support of U.S. National Security James Arnold Miller,1988 *United States in Space* Andrew E. Olivea,2011 During the past fifty years U S leadership in space activities has benefited the global economy enhanced our national security strengthened international relationships advanced scientific discovery and improved our way of life Space capabilities provide the U S and our allies unprecedented advantages in national decision making military operations and homeland security Space systems provide national security decision makers with unfettered global access and create a decision advantage by enabling a rapid and tailored response to global challenges Moreover space systems are vital to monitoring strategic and military developments as well as supporting treaty monitoring and arms control verification This book examines the United States national space policy and national security strategy

The Politics of Space Security James Moltz,2011-06-29 The past five decades have witnessed often fierce international rivalry in space but also surprising military restraint Now with an increasing number of countries capable of harming U S space assets experts and officials have renewed a long standing debate over the best route to space security Some argue that space defenses will be needed to protect critical military and civilian satellites Others argue that space should be a sanctuary from deployed weapons and military conflict particularly given the worsening threat posed by orbital space debris Moltz puts this debate into historical context by explaining the main trends in military space developments since Sputnik their underlying causes and the factors that are likely to influence their future course This new edition provides analysis of the Obama administration s space policy and the rise of new actors including China India and Iran His conclusion offers a unique perspective on the mutual risks militaries face in space and the need for all countries to commit to interdependent environmentally focused space security

National Security Space Strategy U S DEPT OF DEFENSE.,2011 In executing the National Space Policy our National Security Space Strategy seeks to maintain and enhance the national security benefits we derive from our activities and capabilities in space while addressing and shaping the strategic environment and strengthening the foundations of our enterprise The U S defense and intelligence communities will continue to rely on space systems for military operations intelligence collection and related activities access to these capabilities must be assured We must address the growing challenges of the congested contested and competitive space environment while continuing our leadership in the space domain Our strategy is derived from the principles and goals found in the National Space Policy and builds on the strategic approach laid out in the National Security Strategy Specifically our national security space objectives are to strengthen safety stability and security in space maintain and enhance the strategic national security advantages afforded to the United States by space and energize the space industrial base that supports U S national security

Space and Defense Policy Damon Coletta,Frances T. Pilch,2009-10-16 This edited volume introduces the reader to the role of space in military and defense strategy and outlines some of the major foreign and domestic actors in the

space arena as well as constraints of law and treaties on activities in space It also addresses science and technology as they relate to space policy The book addresses three main questions How does the realm of space fit into strategic thinking about national security How does policy regarding space develop and what considerations both in the United States and abroad figure prominently in calculations about space policy How do different states nations actors regard the role of space in their national security calculations and how do these policies impact each other This book fills a niche in the space policy field providing insights into space and strategy from international experts from the military academic and scientific communities A unique feature of the book is the chapter on science and technology which utilizes the latest information available concerning space utilization and exploration

National Security Space, 2017-06-12 Space is important to the national security of the United States Space allows our warfighters to project power across the globe and to keep our homeland safe Unfortunately potential adversaries have recognized this and they are developing weapons to take away the advantages that we have built into space Is the Department of Defense strategically postured to effectively respond to these threats and to prioritize the changed space domain over the long term It is all too clear that we are not There is no clear leadership of the military space domain below the Secretary of Defense There is an adviser councils chiefs directors and even commanders As the Government Accountability Office states DOD space leadership responsibilities are fragmented While there are great leaders within the space enterprise the structure is set up such that far too many people are able to say no without the consequence for the delay and the costs they create Those responsible for the organizing training equipping and operational missions in the national security space are not actually in charge As General Hyten told the Senate Armed Services Committee We are moving much slower in certain areas than our adversaries We need our industry and our acquisition process to move faster The U S has the best military and civilian space professionals alongside the most talented industry in the world The question is not of their ability but rather what tools structures incentives and responsibilities and authority we need to give them to succeed

Space Piracy Marc Feldman, Hugh Taylor, 2025-01-07 Comprehensive exploration of humanity's potential for criminal activities in outer space Space Piracy Preparing for a Criminal Crisis in Orbit is a forward thinking resource that considers analyzes and provides solutions to the influence of the ignoble side of humanity in the realm of outer space where potential for crime corruption piracy and war increases as the exploitation of space as a commercial resource continues to develop This book blends the authors knowledge with that of subject matter experts to deliver a holistic understanding of criminality in space and help readers broaden their horizons beyond their own area of specialization Some of the topics explored in this insightful book include Space hacking from software data network and hardware risks to existing cybersecurity standards and practices in space Criminal organizations that might pursue criminal activities in space including cartels kidnappers and devicenappers and governments Laws and treaties relevant to space crime such as the Communications Satellite Act and the Outer Space Treaty of 1967 Filled with practical thought provoking knowledge and

guidance Space Piracy Preparing for a Criminal Crisis in Orbit earns a well deserved spot on the bookshelves of professionals working in the best of humanity s institutions including law and intelligence services finance insurance and risk management corporations and the sciences who seek to combat what the worst of us may be dreaming up **White Paper** August Cole,American Security Project,2014 The U S needs an innovative resilient and economical way to assure space access particularly for military and government launch programs America s Global Positioning System secure communications and surveillance satellites are lynchpins of the country s armed forces Beyond these government assets the U S military already relies heavily on the private sector s space based capabilities According to a 2013 Defense Business Board report the U S spends about 640 million on commercial satellite services for 40% of its communications All of these satellites make easy targets representing a potential and growing vulnerability For an adversary who seeks to rob U S forces of their ability to precisely target in an urban area know the location of friendly forces or disrupt sharing of up to the minute intelligence gleaned during an ongoing operation there is no better weak link than space assets This paper examines the national security implications of the United States current approach to space and outlines the following The U S needs to overhaul its military space launch capabilities in order to be able to rapidly respond if satellites are destroyed or damaged during a crisis Military and intelligence satellites are vulnerable to attack and disruption be it declared or deniable Air Force efforts to improve competition in military space launch need to be sped up by leveraging commercial sector suppliers and business models The Defense Department should encourage entrepreneurship within the military and commercial segments of the space launch market to give the Defense Department innovative and cost effective space access The U S must set a national security strategy for space that prioritizes resilience including the ability to rapidly and affordably replace damaged or destroyed military and relevant civilian space assets The Politics of Space Eligar Sadeh,2010-11 This title provides a concise guide to the way in which politics and space exploration interact

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