

# Future Security in Space: Charting a Cooperative Course

Hitchens, Theresa

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# Future Security In Space Charting A Cooperative Course

**Air Commodore Jasjit Singh**



## **Future Security In Space Charting A Cooperative Course:**

*Future Security in Space* Theresa Hitchens, Center for Defense Information (Washington, D.C.), 2004      *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      *The Politics of Space Security* James Clay Moltz, 2008-06-24 At a time when no other country enjoys the advantages that the United States currently reaps from space some U S officials argue that U S space defenses will be needed to protect access to critical military and civilian assets in orbit Others argue that space should be a valuable sanctuary from deployed weapons and military conflict To inform this debate and develop meaningful guidelines for the future Clay Moltz has undertaken the only comprehensive study of the first 50 years of space security highlighting the main trends in military space developments their underlying causes and the factors that are likely to influence their future course What emerges is a picture of surprising military restraint shown by the United States and the Soviet Union in space and the inescapable conclusion that the only way forward is through a multilateral commitment to interdependent environmentally focused space security      *Space as a Strategic Asset* Joan Johnson-Freese, 2007-03-27 Joan Johnson Freese argues that the race for space weapons and the U S quest for exclusive or at least dominant ownership of strategic space assets have alienated the very allies that the United States needs in order to maintain its leading role in space exploration Taking a balanced look at the issues that have contributed to the decline of America s manned space program such as lack of political support and funding Johnson Freese offers not only a critique but also a plan for enhancing U S space security through cooperation rather than competition She begins with a brief overview of the history of international space development through four eras before Sputnik the space race after Apollo and globalization Then she focuses on how policy changes of the mid 1990s have changed the nation examining why the United States has grown obsessed with the development of space technology not just as a tool for globalization but as a route toward expanding an already dominant arsenal of weapons Johnson Freese claims that these policy choices have greatly affected the attitudes and actions of other countries and in the fight to achieve security the United States has instead put itself at greater peril Johnson Freese explains complex technical

issues in clear accessible terms and suggests a way forward that is comprehensive rather than partisan America is not the only country with space ambitions but it is unique in viewing space as a battlefield and the technological advancements of other nations as a dire threat Urgent and persuasive Space as a Strategic Asset underscores the danger of allowing our space program to languish and the crucial role of cooperation in protecting the security of our country and the world **Securing**

**Outer Space** Natalie Bormann, Michael Sheehan, 2009-01-30 The challenges that space poses for political theory are profound Yet until now the exploration and utilization of space has generally reflected but not challenged the political patterns and impulses which characterized twentieth century politics and International Relations This edited volume analyses a number of controversial policies and contentious strategies which have promoted space activities under the rubric of exploration and innovation militarization and weaponization colonization and commercialization It places these policies and strategies in broader theoretical perspective in two key ways Firstly it engages in a reading of the discourses of space activities exposing their meaning producing practices uncovering the narratives which convey certain space strategies as desirable inevitable and seamless Secondly the essays suggest ways of understanding and critically engaging with the effects of particular space policies The essays here seek to bring back space into the realm of International Relations discourse from which it has been largely removed marginalized and silenced The various chapters do this by highlighting how activities in outer space are always connected to earth bound practices and performances of the every day Securing Outer Space will be of great interest to students of space power critical security studies and IR theory *Outer Space in Society, Politics and Law* Christian Brünner, Alexander Soucek, 2012-08-30

Spaceflight is a rational undertaking yet full of emotions It is a dream of mankind and a multi billion industry likewise It is subject to a distinct branch of law and moreover part of modern pop culture In short spaceflight is fascinating Outer Space in society politics and law is an inter disciplinary approach to the understanding of modern space law Technical cultural and historical aspects lay the foundation for a sound comprehension why space law norms have been established and what they mean in practice The reader will realize the impact space and spaceflight have on society from Stonehenge to climate change A new approach to presenting space law comprehensive and illustrative We live in a society absolutely dependent on science and technology and yet have cleverly arranged things so that almost no one understands science and technology That s a clear prescription for disaster Carl Sagan **Space Safety**

**Regulations and Standards** Joseph N. Pelton, Ram Jakhu, 2010-09-16 When international rules and regulations governing space travel were first being developed only a few countries had any space presence and commercial space activity was non existent Today over 50 countries have on orbit satellites and commercial space presence is essential to commercial telecommunications and broadcasting yet international space law remains in its infancy Space Safety Regulations and Standards is the definitive book on regulatory initiatives involving space safety new space safety standards and safety related to new space technologies under development More than 30 world experts come together in this book to share their detailed

knowledge of regulatory and standard making processes in the area combining otherwise disparate information into one essential reference and providing case studies to illustrate applications throughout space programs internationally They address the international regulatory framework that relates to traditional space safety programs as well as the emerging regulatory framework that relates to commercial space programs space tourism and efforts to create commercial space station facilities Fully endorsed by the International Association for the Advancement of Space Safety IAASS and provides the only definitive reference on regulations and standards for the field of space safety Combines the technical legal and regulatory information in a clear and integrated reference work suitable for technical professionals regulators legal experts and students in the field Presents a truly global insight from experienced space safety experts worldwide with representatives from the leading associations institutions and companies operating in the arena today

**The Fair and Responsible Use of Space** Wolfgang Rathgeber, Kai-Uwe Schrogl, Ray A. Williamson, 2011-02-03 As space applications become central to modern interaction more and more entities are becoming involved in space activities Consequently strategies to establish the coordinated ethically justifiable and sustainable conduct of space activities have to be found Such an endeavour requires addressing current questions regarding the use of space dealing with fair rules in orbit and discussing the way towards achieving truly global engagement on space security issues The book outlines the current situation and identifies key challenges from the policy perspective Taking this one step further it also formulates principles and recommendations for global action Nineteen eminent personalities from the space sector have united for this project which is based on a conference organised at the European Space Policy Institute ESPI in November 2008 in Vienna

**Toward a Theory of Spacepower** Charles D. Lutes, 2011-03-07 This volume is a product of the efforts of the Institute for National Strategic Studies Spacepower Theory Project Team which was tasked by the Department of Defense to create a theoretical framework for examining spacepower and its relationship to the achievement of national objectives The team was charged with considering the space domain in a broad and holistic way incorporating a wide range of perspectives from U S and international space actors engaged in scientific commercial intelligence and military enterprises This collection of papers commissioned by the team serves as a starting point for continued discourse on ways to extend modify refine and integrate a broad range of viewpoints about human initiated space activity its relationship to our globalized society and its economic political and security interactions It will equip practitioners scholars students and citizens with the historical background and conceptual framework to navigate through and assess the challenges and opportunities of an increasingly complex space environment

Weaponizing Space United States. Congress. House. Committee on Oversight and Government Reform. Subcommittee on National Security and Foreign Affairs, 2007

**Handbook of Space Law** Frans von der Dunk, 2015-02-27 The Handbook of Space Law addresses the legal and regulatory aspects of activities in outer space and major space applications from a comprehensive and structured perspective It fundamentally addresses the dichotomy between the state

oriented character      *Global Security in the Twenty-First Century* Sean Kay, 2015-03-06 This thoroughly updated edition of *Global Security in the Twenty First Century* offers a balanced introduction to contemporary security dilemmas throughout the world Sean Kay assesses the impact of the global economic crisis on international security and considers how the range of thinking about power and peace has evolved in relation to major flashpoints including in the Middle East Asia and Eurasia Kay builds on the first and second edition's emphasis on the roles of trade and technology the militarization of space the privatization of security the use of sanctions ethnic conflict and transnational crime This edition goes even farther to incorporate traditional thinking about national security in the context of human rights democracy population health environment energy and especially education The author includes full updates on emerging challenges out of Iraq Russia and viral diseases in the context of larger strategic questions like the rise of China and America's pivot to rebalance its priorities toward Asia Writing in an engaging style Kay integrates traditional and emerging challenges in one easily accessible study that gives readers the tools they need to develop a thoughtful and nuanced understanding of global security      **Space Exploration and Humanity** American Astronautical Society, 2010-08-23 A complete history of human endeavors in space this book also moves beyond the traditional topics of human spaceflight space technology and space science to include political social cultural and economic issues and also commercial civilian and military applications In two expertly written volumes *Space Exploration and Humanity A Historical Encyclopedia* covers all aspects of space flight in all participating nations ranging from the Cold War era beginnings of the space race to the lunar landings and the Apollo Soyuz mission from the Shuttle disasters and the Hubble telescope to Galileo the Mars Rover and the International Space Station The book moves beyond the traditional topics of human spaceflight space technology and space science to include political social cultural and economic issues and also commercial civilian and military applications Produced in conjunction with the History Committee of the American Astronautical Society this work divides its coverage into six sections each beginning with an overview essay followed by an alphabetically organized series of entries on topics such as astrophysics and planetary science civilian and commercial space applications human spaceflight and microgravity science space and society and space technology and engineering Whether investigating a specific issue or event or tracing an overarching historic trend students and general readers will find this an invaluable resource for launching their study of one of humanity's most extraordinary endeavors      Routledge Handbook of War, Law and Technology James Gow, Ernst Dijxhoorn, Rachel Kerr, Guglielmo Verdirame, 2019-05-15 This volume provides an authoritative cutting edge resource on the characteristics of both technological and social change in warfare in the twenty first century and the challenges such change presents to international law The character of contemporary warfare has recently undergone significant transformation in several important respects the nature of the actors the changing technological capabilities available to them and the sites and spaces in which war is fought These changes have augmented the phenomenon of non obvious warfare making understanding

warfare one of the key challenges Such developments have been accompanied by significant flux and uncertainty in the international legal sphere This handbook brings together a unique blend of expertise combining scholars and practitioners in science and technology international law strategy and policy in order properly to understand and identify the chief characteristics and features of a range of innovative developments means and processes in the context of obvious and non obvious warfare The handbook has six thematic sections Law war and technology Cyber warfare Autonomy robotics and drones Synthetic biology New frontiers International perspectives This interdisciplinary blend and the novel rich and insightful contribution that it makes across various fields will make this volume a crucial research tool and guide for practitioners scholars and students of war studies security studies technology and design ethics international relations and international law

*Common Security in Outer Space and International Law* Detlev Wolter (jurist.),2006 This publication explores the concept of common security and the legal foundations for its application in outer space law based on the premise that outer space is an internationalised common area beyond the national jurisdiction of individual states and therefore security in space must be the common security of all states Chapters cover a range of issues including the principle of the peaceful use of outer space passive military uses and multilateral negotiations to prevent an arms race in outer space structural change of international law and the common heritage of mankind principle and proposals for a multilateral agreement and the creation of an International Organisation for Common Security in Outer Space

**Toward a Theory of Spacepower** Charles D. Lutes,Vincent A. Manzo,Lisa M. Yambrick,M. Elaine Bunn,2011 This volume is a product of the efforts of the Institute for National Strategic Studies Spacepower Theory Project Team which was tasked by the Department of Defense to create a theoretical framework for examining spacepower and its relationship to the achievement of national objectives The team was charged with considering the space domain in a broad and holistic way incorporating a wide range of perspectives from U S and international space actors engaged in scientific commercial intelligence and military enterprises This collection of papers commissioned by the team serves as a starting point for continued discourse on ways to extend modify refine and integrate a broad range of viewpoints about human initiated space activity its relationship to our globalized society and its economic political and security interaction It will equip practitioners scholars students and citizens with the historical background and conceptual framework to navigate through and assess the challenges and opportunities of an increasingly complex space environment P 4 of cover

Dark Skies Daniel Deudney,2020 *Dark Skies* provides the first comprehensive and balanced assessment of the space enterprise past present and future It demolishes widely held optimistic assumptions about the desirability of many major space activities actual and prospective Most consequentially the hiding in plain sight use of outer space as a corridor for long range bombardment has increased the probability of catastrophic nuclear war Contrary to the widespread claim that sustainable colonies on other celestial bodies are necessary for human survival from large scale disasters on Earth *Dark Skies* shows that colonization itself poses many severe threats and should be

avoided Instead an Earth oriented space program should be pursued      War in Heaven Helen Caldicott, Craig R. Eisendrath, 2007 When most of us think about the potential of outer space for future generations we think of world communications satellite navigation and scientific exploration U S Space Command however thinks about weapons Believing that conflict in space and wars fought from space are inevitable the president has called on the agency to weaponize outer space and thus provoke an arms race that could cost the United States trillions of dollars and could lead to the demise of the human race In War in Heaven a Nobel Prize nominated peace activist and a former U S foreign service officer who helped write the Outer Space Treaty of 1967 look at the history of military uses of space and the current plans for militarizing the heavens including kinetic laser nuclear bombardment and anti satellite weapons Contrary to the claims of Secretary of Defense Donald Rumsfeld that the United States faces a space Pearl Harbor Caldicott and Eisendrath show that the United States itself is today the principal obstruction to passage of an international treaty banning weapons from outer space At a time when plans to build and deploy space weapons are on the administration s agenda but only just becoming known to the general public this book will help launch a national discussion of a critical issue      **Asian Defence Review 2012** Air Commodore Jasjit Singh, 2013-03-15 With the shift of global power from West to East we have entered the era of an Asia centred century The rise of China and India the recovery and resurgence of Russia on one side and Japan on the other and the nature of the international order are leading to enormous changes These transformational changes in the military economic and political dynamics of Asia are accelerating with the passage of time Historically changes in the international order and equations of power among national have been almost inevitably accompanied by conflicts and wars The challenge ahead of the international community in general and Asian countries in particular would be how to ensure that this is avoided and competition so necessary to shaping the future is managed below the levels of armed conflict This is crucial for most countries like India so that their comprehensive national development can progress without adverse developments In order to work toward such goals it is necessary to look at security and military related issues as objectively as possible This volume a resource base for the professional and the general reader is the sixth in the series of the annual publication of the Centre for Air Power Studies under this title which aims to fill a critical information and knowledge gap in current strategic literature dealing with military strategy defence politics and trends in military capabilities that impact countries in Asia In particular it covers some of the important areas that affect Asian countries with a focus on China India and Pakistan to provide the requisite regional balance      *Report to the President* National Space Council (U.S.), 1992



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