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Toward a Theory of

# SPACEPOWER

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Selected Essays

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Institute for National Strategic Studies  
National Defense University



# Toward A Theory Of Spacepower

**J. Boone Bartholomees**



## **Toward A Theory Of Spacepower:**

*Toward a Theory of Spacepower* Institute for National Strategic Studies, Institute for National Strategic Studies National Defense University, 2014-04-21 Chapters 15 through 30 Vol 2 Over a century ago the rapid expansion of global overseas trade brought about by the advent of improved steam propulsion and advances in ship design and construction posed new national policy and security questions for the United States First to what degree did American economic prosperity depend upon being a major active participant in maritime commerce Second what were the naval implications of such action with respect to the extension and defense of important if not vital American interests Third what role should the U S Government play in the promotion of maritime commercial activity and the creation of the naval forces required to protect American overseas trade And fourth what changes if any were required with respect to the direction of American foreign policy In 1890 Captain Alfred Thayer Mahan a serving officer in the U S Navy published *The Influence of Sea Power upon History 1660 1783* This book provided a comprehensive statement about maritime commerce naval power government policy and international politics that became the theoretical point of departure for almost all discussion of what was widely regarded to be the most important national security problem of the day both in the United States and around the world Today the importance of space as a venue for economic and military activity in certain respects resembles the conditions of maritime commerce and naval power in the late 19th century These circumstances prompt two questions first is a history based exploration of prospects and possibilities of spacepower in the manner of Mahan a viable intellectual proposition Second does his work contain ideas that are applicable to spacepower or at least suggest potentially productive lines of inquiry Addressing these issues however requires a sound foundation namely an accurate understanding of Mahan's major arguments and his manner of reasoning Unfortunately misunderstanding Mahan is the rule rather than the exception His writing is rarely read and the bulk of the critical literature is corrupted by serious interpretive error What follows is a schematic representation of Mahanian argument that can be related to the consideration of the nature of the theoretical problem of space power

**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      *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      **Toward a Theory of Spacepower** National Defense University Press, 2011-03 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      Meta-Geopolitics of Outer Space N. Al-Rodhan, 2012-05-11 Al Rodhan sheds new light on the debate about the geopolitics of outer space going beyond applying traditional International Relations approaches to space power and security by introducing a multidimensional spatial framework The meta geopolitics framework includes space and expands classical power considerations to cover seven state capacities      Power, State and Space Marco Aliberti, Ottorino Cappelli, Rodrigo Praino, 2023-07-18 This book explains on what basis a nation can claim the status of space power what are the criteria differentiating a space power from lesser space actors and how their spacepower can be empirically measured and assessed To this end it sets forth a comprehensive multidisciplinary framework to enable a dynamic comparison of space actors and of the pathways that lead them in and out of the space powers club Drawing upon a critical review of the existing literature it conceptualises spacepower as a form of state power based on the complex interplay between the two defining dimensions of stateness namely the well studied dimension of capacity and the often neglected yet exceedingly important dimension of autonomy The book demonstrates that only actors possessing high levels of both autonomy and capacity qualify

as space powers Different levels of either capacity or autonomy produce other types of space actors including skilled spacefarers self reliant spacefarers primed spacefarers and emerging space actors This innovative conceptual framework is complemented by an in depth comparative assessment that collects and processes a large amount of hard to find data on the most active global space actors and aggregates multiple indicators into a compound non hierarchical index of space power visualised in the form of a matrix      **Toward a Theory of Space Power: Selected Essays, February, 2011, \*** ,2011

**Measuring Space Power** Marco Aliberti,Matteo Cappella,Tomas Hrozensky,2019-08-02 This book provides an in depth investigation of the concept of space power and devises a novel conceptual framework for empirically measuring and comparing different typologies of space actors on the basis of clearly defined criteria In turn the book identifies a comprehensive set of conditions required to achieve and maintain the status of space power and explores the main political security and socio economic stakes involved Building on this basis the book conducts a comparative assessment of the major space actors the underlying aim of which is to examine Europe s relative position in the space arena and put into perspective its proclaimed goal to assert itself as a space power with all of the means and resources this would entail Given its scope the book represents a valuable and versatile tool to support European decision making and offers key insights for executives space professionals and scholars alike      *Toward a Theory of Space Power* Defense Department,2011-03-07 Contains

commissioned papers 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 NOTE NO FURTHER

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Asteroid Mining, Mars Director of National Intelligence,National Defense University,Institute for National Strategic Studies,Secretary of Defense,2017-11-13 The National Security Space Strategy charts a path for the next decade to respond to the current and projected space strategic environment Leveraging emerging opportunities will strengthen the U S national security space posture while maintaining and enhancing the advantages the United States gains from space Our strategy requires active U S leadership enabled by an approach that updates balances and integrates all of the tools of U S power The Department of Defense DoD and the Intelligence Community IC in coordination with other departments and agencies will implement this strategy by using it to inform planning programming acquisition operations and analysis Contents Preface The Strategic Environment Strategic Objectives Strategic Approaches Promoting Responsible Peaceful and Safe Use of Space Providing Improved U S Space Capabilities Partnering with Responsible Nations International Organizations and Commercial Firms Preventing and Deterring Aggression against Space Infrastructure that Supports U S National Security Preparing to Defeat Attacks and to Operate in a Degraded Environment Implementation Conclusion A New Type Of Leadership Toward a Theory of Spacepower Selected Essays This is an authoritative compilation of expert opinions on spaceflight and spacepower

providing a broad interesting and up to date overview of all aspects of the subject military theory the work of Captain Alfred Thayer Mahan international relations theory commercial space history smallsat launch services space tourism civil space authority Mars the Moon space and the environment national security space and warfare arms control Russian space programs ASAT anti satellite systems Chinese space programs Indian space programs South America Middle East Africa space law and organizing the Presidency for spacepower Old Thoughts New Problems Mahan and the Consideration of Spacepower On the Nature of Military Theory International Relations Theory and Spacepower Commercial Space and Spacepower The Commercial Space Industry A Critical Spacepower Consideration Importance of Ground Equipment for National Security The Next Space Age A Commercial Space Paradigm Future Projections and Implications for Spacepower Merchant and Guardian Challenges in the Exercise of Spacepower What is Spacepower Two Cultures Merchants and Guardians Space Exploration and Spacepower Economic Development of the Solar System The Heart of a 21st century Spacepower Theory Wealth Resources and National Security and Spacepower Theory The Resources of the Solar System The Moon and Cislunar Space The Resources of the Near Earth Asteroids Mars Energy Lunar Power Fusion The Long term Outlook for Commercial Space History of Civil Space Activity and Spacepower The Military and the Quest for a Human Mission in Space Victory from Mars The Moon Point of Entry to Cislunar Space Spaceflight The Current Template Spacepower and the Environment Neither Mahan nor Mitchell National Security Space and Spacepower 1945 2000 Spacepower and the Challenge of Strategic Theory Exploiting the Cyberspace Arena Spacepower and Warfare War Extended to Space U S Military Spacepower Conceptual Underpinnings and Practices Creating the Myth of Space Sanctuary Balancing U S Security Interests in Space International Perspectives Russia Manned Program and Vehicles Russian Perspectives on Spacepower Spacepower in China The European Spacepower A Multifaceted Concept Emerging Domestic Structures Organizing the Presidency for Spacepower Space Law and the Advancement of Spacepower Affordable and Responsive Space Systems **Joint Force Quarterly** ,2008 **Space, Power and Knowledge in the Arctic** Marcia A. Levenson,1989

*Spacepower Theory* John W. Wagner, Major Usaf Wagner, John, Air University, Air Command and Staff College, 2012-12-08 Spacepower analogous to airpower and sea power is the ability to use the space medium to project military power Since the end of the Cold War the contributions of spacepower to national security and military operations have become increasingly visible in the open press leading to an increased stated need for a comprehensive spacepower theory This research is focused toward that need It explores the central themes and specific points of the theoretical masters of land sea and air in order to draw analogies to the emerging presence of military spacepower Space will continue to aid combat in other mediums as it offers persistence range and near instantaneous speed enabling a global presence that is unmatched by capabilities in any other medium However for spacepower to emerge as a fully competent component of the future joint force or simply to mature as a combat arm within the US Air Force a body of serious thought must be given to why we need spacepower and

what we intend it to do Through this analysis five lessons emerge for spacepower theory 1 Spacepower must control space lines of communication 2 Decisive points are key to space control 3 Spacepower requires superior observation capabilities and the ability to take offensive action 4 Robust spacepower could lead to enemy paralysis and 5 Spacepower requires masters of the space medium

From Theater Missile Defense to Antimissile Offensive Actions Merrick E. Krause, 1999 This study examines the question What strategic approach should the USAF take toward Theater Missile Defense TMD and Anti Missile Offensive Actions in the near term The thesis begins with an introductory chapter asking the stated question in context presenting the methodology used and summarizing the proposals given at the end of the treatment The methodological approach to this thesis involves historical and literature reviews interviews and a qualitative comparison of current and proposed weapons systems capabilities and doctrine Broad strategic options not specific tactical systems are the focus of this study The second chapter reviews milestones of missile and anti missile diplomatic and political history to establish a basis for how we arrived at the present situation Next the third chapter reviews the current theater ballistic missile TBM and weapons of mass destruction WMD threat situation Also an overview of contemporary political and military reasoning is presented to provide a baseline of support for the critical need of an integrated joint and multi layered TMD The fourth chapter compares current and near term Anti Missile systems and programs identifies a near term Anti Missile Capabilities Gap and distills the plethora of situational information to four succinct implications Finally the last chapter provides and analyzes four proposals for possible actions that the USAF can take to answer the thesis question while taking into account the implications of the current and near term TBM situation Overall this thesis recommends a philosophical shift to one in which USAF near term Attack Operations AO and BMC4I integration are considered as part of an air and space power Anti Missile Offensive Counterair effort not simply an adjunct to a ground force driven TMD paradigm

*Spacepower Theory: Lessons from the Masters*, 2005 Spacepower analogous to airpower and sea power is the ability to use the space medium to project military power Since the end of the Cold War the contributions of spacepower to national security and military operations have become increasingly visible in the open press leading to an increased stated need for a comprehensive spacepower theory This research is focused toward that need It explores the central themes and specific points of the theoretical masters of land sea and air in order to draw analogies to the emerging presence of military spacepower Space will continue to aid combat in other mediums as it offers persistence range and near instantaneous speed enabling a global presence that is unmatched by capabilities in any other medium However for spacepower to emerge as a fully competent component of the future joint force or simply to mature as a combat arm within the US Air Force a body of serious thought must be given to why we need spacepower and what we intend it to do Through this analysis five lessons emerge for spacepower theory 1 Spacepower must control space lines of communication 2 Decisive points are key to space control 3 Spacepower requires superior observation capabilities and the ability to take offensive action 4 Robust spacepower

could lead to enemy paralysis and 5 Spacepower requires masters of the space medium     The U.S. Army War College Guide to National Security Issues: Theory of war and strategy J. Boone Bartholomees,2010 This edition of the U S Army War College Guide to National Security Policy and Strategy continues to reflect the structure and approach of the core national security strategy and policy curriculum at the War College The fourth edition is published in two volumes that correspond roughly to the Department of National Security and Strategy s core courses Theory of War and Strategy and National Security Policy and Strategy Like previous editions this one is largely an expansion of its predecessor rather than a major rewriting About a quarter of the chapters are new and several others have undergone significant rewrites or updates However approximately half of the book remains unchanged Although this is not primarily a textbook it does reflect both the method and manner we use to teach strategy formulation to America s future senior leaders The book is not a comprehensive or exhaustive treatment of either strategic theory or the policymaking process Both volumes are organized to proceed from the general to the specific Thus the first volume opens with general thoughts on the nature and theory of war and strategy proceeds to look at the complex aspect of power and concludes with specific theoretical issues Similarly the second volume begins by examining the policy strategy process moves to a look at the strategic environment and concludes with some specific issues This edition adds several short case studies that can be used to illustrate the primary material in the volume

**Twilight War** Mike Moore,2008-03-03 Considering the historical background of space militarization and providing an overview of the United States efforts to militarily dominate space since the dawn of the space age this book argues that America must either ensure that space related weapons are verifiably banned for all nations through an international treaty or definitively choose a policy of unilateral space dominance that may lead to an arms race in space and possibly to another cold war Through a careful discussion of the history of space programs their impact on past policies and events the tactical and strategic influence of space weapons on the engagement of war and the potential pitfalls of a dominance strategy this book concludes that unilateral military dominance of space by the United States would be a supreme mistake and that it would make Americans less secure

**Air & Space Power Journal** ,2002     **Space Doctrine for the Twenty-first Century** Robert D. Newberry,1998     **AU Press Publications** Air University (U.S.). Press,2003



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## **Table of Contents Toward A Theory Of Spacepower**

1. Understanding the eBook Toward A Theory Of Spacepower
  - The Rise of Digital Reading Toward A Theory Of Spacepower
  - Advantages of eBooks Over Traditional Books
2. Identifying Toward A Theory Of Spacepower
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Toward A Theory Of Spacepower
  - User-Friendly Interface
4. Exploring eBook Recommendations from Toward A Theory Of Spacepower
  - Personalized Recommendations
  - Toward A Theory Of Spacepower User Reviews and Ratings
  - Toward A Theory Of Spacepower and Bestseller Lists
5. Accessing Toward A Theory Of Spacepower Free and Paid eBooks
  - Toward A Theory Of Spacepower Public Domain eBooks
  - Toward A Theory Of Spacepower eBook Subscription Services

- Toward A Theory Of Spacepower Budget-Friendly Options
- 6. Navigating Toward A Theory Of Spacepower eBook Formats
  - ePub, PDF, MOBI, and More
  - Toward A Theory Of Spacepower Compatibility with Devices
  - Toward A Theory Of Spacepower Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Toward A Theory Of Spacepower
  - Highlighting and Note-Taking Toward A Theory Of Spacepower
  - Interactive Elements Toward A Theory Of Spacepower
- 8. Staying Engaged with Toward A Theory Of Spacepower
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Toward A Theory Of Spacepower
- 9. Balancing eBooks and Physical Books Toward A Theory Of Spacepower
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Toward A Theory Of Spacepower
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Toward A Theory Of Spacepower
  - Setting Reading Goals Toward A Theory Of Spacepower
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Toward A Theory Of Spacepower
  - Fact-Checking eBook Content of Toward A Theory Of Spacepower
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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