
Toward a Theory of

SPACEPOWER

Selected Essays

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Toward A Theory Of Spacepower

Elinor C. Sloan



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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](#) 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 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

War in Space Bledwyn E. Bowen, 2020-06-18 No detailed description available for War in Space

Strategic Forum, 1994

Routledge Handbook of Space Policy Thomas Hoerber, Mariel Borowitz, Antonella Forganni, Bruno Reynaud de Sousa, 2024-12-30 This volume offers a comprehensive overview of the field of space policy Space is a technology driven domain and policy development has accelerated in recent years at a time when the space economy has begun to show remarkable potential Thus this handbook gathers experts from different fields with the aim of 1 offering an overview of the state of play regarding space policy issues and 2 expanding knowledge about possible future developments Given the cross disciplinary nature of the subject and its vast scope the authors contributions are grouped within different thematic sections as follows Theoretical structures for an understanding of space policies The history of space Society justice and the human impact Governance of space Popularisation of space New frontiers in space and expansion into the unknown World space policies by geographic areas The introduction and the conclusion chapters provide a coherent connection between the contributions with each section presenting transversal themes such as power dynamics and rules commercialisation sustainability militarisation applications and domestic use and justice This volume will be of much interest to students of space policy and power security studies and international relations

Cyber Blockades Alison Lawlor Russell, 2014-11-05 Cyber Blockades is the first book to examine the phenomena of blockade operations in cyberspace large scale attacks on infrastructure or systems that aim to prevent an entire state from sending or receiving electronic data Cyber blockades can take place through digital physical and or electromagnetic means Blockade operations have historically been considered acts of war thus their emergence in cyberspace has significant implications for international law and for our understanding of cyber warfare The author defines and explains the emerging concept of cyber blockades and presents a unique comparison of blockade operations in five different domains on land at sea in the air in space and in cyberspace identifying common elements as well as important distinctions Alison Lawlor Russell s framework for defining cyber blockades understanding how they occur and considering the motivations of actors who employ them is applied with in depth analysis of the cyber attacks on Estonia in 2007 and on Georgia during the 2008 Georgia Russia War Blockade operations have occurred in cyberspace and will doubtlessly be used again in the future by both state and non state actors alike because of the unique advantages of this type of attack This book offers recommendations for policymakers contemplating or confronted by such attacks Cyber Blockades is also a must read for scholars and students of security studies terrorism substate groups and the future of warfare

New Technologies as a Factor of International Relations Katarzyna

Mojska, Monika Szkarłat, 2016-09-23 This book provides a theoretical and empirical analysis of the multidimensional influences of technological development on contemporary international relations The contributions here are drawn from different disciplines including political science international relations sociology economy law biochemistry and bioethics as well as from different locations including Poland the US Brazil and Israel This variety allows the complexity of the issues challenges and implications of technological changes on the structure functioning and substantive scope of international relations to be fully presented and explored This collection represents essential reading for anyone with an interest in the dynamic interplay between modern technologies and the transformation of the contemporary international system and especially for international relations scholars and students The Palgrave Handbook of Society, Culture and Outer Space

James S. Ormrod, Peter Dickens, 2017-09-11 Societies have always been formed in a relationship with the rest of the universe With rapid developments in satellite communications and imaging space exploration and tourism military space technology and cosmology itself relationships with outer space are changing These changes have inspired a wave of critical academic work in recent years re examining the history present and future of outer space and the place of humans within it This handbook provides an in depth exploration of major themes relating to society culture and the universe and will inspire and cultivate debate in this exciting and burgeoning area of study for future researchers and theorists Bringing together scholarship from a range of disciplines including geography economics history political science sociology philosophy science and technology studies law cultural astronomy anthropology media studies literature psychosocial studies and art it closely examines how outer space is socially produced experienced perceived and imagined and the significance of this for terrestrial social life *Understanding Space Strategy* John J. Klein, 2019-03-07 This book examines the rise of great power competition in space including the relevant and practical space strategies for China Russia the United States and other countries The work discusses the concepts and writings of past strategists such as Thucydides Sun Tzu and Clausewitz in relation to warfare initiated in or extending into space This analysis underscores why polities initiate war based upon an assessment of fear honor and interest and explains why this will also be true of war in space Based upon the timeless strategic writings of the past the book uncovers the strategy of space warfare along with the concepts of deterrence dissuasion and the inherent right of self defense and outlines strategies for great medium and emerging space powers Additionally it highlights changes needed to space strategy based upon the Law of Armed Conflict norms of behavior and Rules of Engagement The work also examines advancements and emerging trends in the commercial space sector as well as what these changes mean for the implementation of a practical space strategy Given the rise of great power competition in space this work presents a space strategy based upon historical experience This book will be of much interest to students of space policy strategic studies and International Relations **Modern Military Strategy** Elinor C. Sloan, 2016-10-11 This textbook provides a comprehensive introduction to post Cold War military theory for students of strategic studies This second edition has been fully revised and

updated including a new chapter on peacekeeping and examines contemporary strategic thought on the conduct of war in the sea land air nuclear space and cyber domains as well as irregular warfare Each chapter identifies contemporary strategic thinkers in a particular area examines strategic thought through the lens of identifiable themes and discusses the ideas of classical strategists to provide historical context Examples of the link between the use of military force and the pursuit of political objectives are presented such as airpower against ISIS and in Libya counterinsurgency in Afghanistan and Iraq counter piracy operations off the coast of Africa and the Stuxnet virus in Iran The chapters identify trends statements and principles that indicate how military power can best be employed to effect political ends while the conclusion paints an overall picture of the relationship between classic and contemporary strategic thinking within each warfare domain This book will be essential reading for students of strategic studies war studies and military history and is highly recommended for students of security studies and international relations in general

Space Strategy in the 21st Century Eligar Sadeh, 2013 This book offers an overview of space strategy in the 21st century The purpose of space strategy is to coordinate integrate and prioritize space activities across security commercial and civil sectors Without strategy space activities continue to provide value but it becomes difficult to identify and execute long term programs and projects and to optimize the use of space for security economic civil and environmental ends Strategy is essential for all these ends since dependence on and use of space is accelerating globally and space is integrated in the fabric of activities across all sectors and uses This volume identifies a number of areas of concern pertinent to the development of national space strategy including intellectual foundations political challenges international cooperation and space governance space assurance and political organizational and management aspects specific to security space strategy The contributing authors expand their focus beyond that of the United States and explore and analyse the international developments and implications of national space strategies of Russia China Europe Japan India Israel and Brazil This book will be of much interest to students of space power and politics strategic studies foreign policy and International Relations in general

Norm Formation in Space Law Kimitake Nakamura, 2024-08-19 The Japanese version of this text received the Riese Award from the Air Law Institute of Japan What kind of document should be created to solve the problem of space activities This book uses case studies to illustrate how normative approaches in space law differ from those in other fields delving into the history of norms and treaties in space law contemporary issues concerning space activities and issues surrounding debris removal and mitigation Its analytical approach will be useful for readers who study how the basic theory of public international law can apply to new frontiers in space law

Military Strategy, Joint Operations, and Airpower Ryan Burke, Michael Fowler, Jahara Matisek, 2022 Military Strategy Joint Operations and Airpower introduces students to contemporary strategy and the operational level of war particularly as it relates to airpower Developed as foundational reading for all US Air Force Academy cadets this intermediate textbook is designed to close the gap between military theory and practice It covers strategic foundations

operational design and joint service operations the air space and cyber capabilities that comprise modern airpower and contemporary challenges in the application of strategy In this second edition each chapter has been updated and revised and several sections have been expanded Part II Military Forces and the Joint Fight is now has separate chapters about each service in addition to a chapter on joint structure Similarly operational design is expanded from one to four chapters to provide a more thorough step by step guide through the process New chapters in this second edition include Integrating the Instruments of Power The Spectrum of Conflict and Range of Military Operations and The Nuclear Weapons Triad and Missile Defense This book s contributing authors and editors include both military practitioners and scholars of security studies political science and history In addition to being required reading for Air Force cadets and ROTC students the book will provide an essential overview of strategy and practice for anyone interested in modern airpower **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 Governance of the Global and Extra-Terrestrial Commons Michael Roe, 2023-06-26 This book provides a unique analysis of the complex relationship between governance and the global commons It has a specific reference to the dynamic and growing outer space economy and society and how experience in the maritime sector which exhibits many of the same issues and challenges as outer space can be useful in suggesting moves forward in policy making and design This book fills a large gap in the literature of both governance and the development of outer space Whilst the maritime sector has a long history of debate albeit little in terms of governance and policy making outer space has much less and what there has been commonly focused upon technical considerations The importance of this book is that the failures of maritime governance need to be avoided in the outer space sector which exhibits many of the same issues particularly those related to the global commons Innovative and exciting this book will be of interest to academics studying corporate governance business management and space capitalism *Developing National Power in Space* Brent Ziarnick, 2014-12-24 Exploring the nature of space programs and how nations can maximize advantages gained from space operations this book draws from military and economic theory to describe an original model of the development and employment of a nation s ability to operate in space Chapters discuss the implications for the history and organization of America s space program particularly

its military dimension The rise of American naval power early in the 20th century is investigated as an historical analog to the current American situation in space and a method is proposed for the U S to lead a new space age This book s unique theory and analysis will be of interest to policy makers planners leaders and enthusiasts interested in America s future in space

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