

The Physics of Space Security

A Reference Manual

David Wright, James Cowie, and Andrew Corbett



The Physics Of Space Security A Reference Manual

Erin Pobjie



The Physics Of Space Security A Reference Manual:

The Physics of Space Security David Wright, Laura Grego, Lisbeth Gronlund, 2005 **The Oxford Handbook of Space Security** Saadia M. Pekkanen, P. J. Blount, 2024 The Oxford Handbook of Space Security focuses on the interaction between space technology and international and national security processes Saadia M Pekkanen and P J Blount have gathered a group of key scholars who bring a range of analytical and theoretical perspectives to take an analytically eclectic approach to assessing space security from an international relations IR theory perspective Bringing together scholarship from a group of leading experts this volume explains how these contemporary changes will affect future security in from and through space

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 Warfare in the 21st Century Joan Johnson-Freese, 2016-11-08 This book examines the recent shift in US space policy and the forces that continually draw the US back into a space technology security dilemma The dual use nature of the vast majority of space technology meaning of value to both civilian and military communities and being unable to differentiate offensive from defensive intent of military hardware makes space an area particularly ripe for a security dilemma In contrast to previous administrations the Obama Administration has pursued a less militaristic space policy instead employing a strategic restraint approach that stressed

multilateral diplomacy to space challenges The latter required international solutions and the United States subsequently even voiced support for an International Code of Conduct for Space That policy held until the Chinese anti satellite ASAT test in 2013 which demonstrated expanded Chinese capabilities This volume explores the issues arising from evolving space capabilities across the world and the security challenges this poses It subsequently discusses the complexity of the space environment and argues that all tools of national power must be used with some degree of balance toward addressing space challenges and achieving space goals This book will be of much interest to students of space policy defence studies foreign policy security studies and IR

Into the Black Rowland White, 2016 On April 12 1981 NASA's Space Shuttle Columbia blasted off from Cape Canaveral a state of the art flying machine and the world's first real spaceship a winged rocket plane the size of an airliner and capable of flying to space and back before preparing to fly again Less than an hour after departure tiles designed to protect the ship from the blowtorch burn of re entry were missing from the heat shield White recaptures the historic moments leading up to the launch of the Columbia her daring maiden flight and her life and death struggle to return using interviews NASA oral histories and recently declassified material

Prohibited Force Erin Pobjie, 2024-02-29 Offers an original framework to identify prohibited uses of force under article 2 4 UN Charter and customary international law

Outer Space Alexei Arbatov, Vladimir Dvorkin, 2011-11 In this era of globalization the world is facing a host of challenging security problems from the proliferation of weapons of mass destruction to international terrorism to accelerating climate change to energy security that cannot be resolved unilaterally especially through the unilateral use of military force One key issue that requires urgent global attention is literally out of this world the military use of outer space This collection of essays by leading Russian experts analyzes the current military use of outer space The book describes the space weapons programs of various countries It details the history of negotiations to prevent or at least control the weaponization of space including analyses of the political military technical and legal problems facing negotiators trying to avoid a catastrophic new space race

Heavenly Ambitions Joan Johnson-Freese, 2012-05-26 In the popular imagination space is the final frontier Will that frontier be a wild west or will it instead be treated as the oceans are as a global commons where commerce is allowed to flourish and no one country dominates At this moment nations are free to send missions to Mars or launch space stations Space satellites are vital to many of the activities that have become part of our daily lives from weather forecasting to GPS and satellite radio The militaries of the United States and a host of other nations have also made space a critical arena spy and communication satellites are essential to their operations Beginning with the Reagan administration and its attempt to create a missile defense system to protect against attack by the Soviet Union the U S military has decided that the United States should be the dominant power in space in order to protect civilian and defense assets In *Heavenly Ambitions* Joan Johnson Freese draws from a myriad of sources to argue that the United States is on the wrong path first by politicizing the question of space threats and second by continuing to believe that military domination in space is the only way to protect U S

interests in space Johnson Freese who has written and lectured extensively on space policy lays out her vision of the future of space as a frontier where nations cooperate and military activity is circumscribed by arms control treaties that would allow no one nation to dominate just as no one nation's military dominates the world's oceans This is in the world's interest and most important in the U S national interest The Future Law of Armed Conflict Matthew C. Waxman, Thomas W. Oakley, 2022 New technologies new geopolitical alignments new interests and vulnerabilities and other developments are changing how why and by whom conflict will be waged The Future Law of Armed Conflict considers how law and institutions for creating interpreting and enforcing the law of armed conflict might look two decades ahead as well as what opportunities may exist to influence it in that time This book brings together a diverse set of voices to debate questions that are likely to emerge and consider possible futures

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