

PRELIMINARY DESIGN OF AN
EXPERIMENTAL
WORLD-CIRCLING SPACESHIP

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Preliminary Design Of An Experimental World Circling Spaceship

Peter L. Hays



Preliminary Design Of An Experimental World Circling Spaceship:

Preliminary Design of an Experimental World-Circling Spaceship, 1998 More than eleven years before the orbiting of Sputnik history's first artificial space satellite Project RAND then active within Douglas Aircraft Company's Engineering Division released its first report Preliminary Design of an Experimental World Circling Spaceship SM 11827 May 2 1946 Interest in the feasibility of space satellites had surfaced somewhat earlier in a Navy proposal for an interservice space program March 1946 Major General Curtis E LeMay then Deputy Chief of the Air Staff for Research and Development considered space operations to be an extension of air operations He tasked Project RAND to undertake a feasibility study of its own with a three week deadline The resulting report arrived two days before a critical review of the subject with the Navy The central argument turns on the feasibility of such a space vehicle from an engineering standpoint but alongside the curves and tabulations are visionary statements such as that by Louis Ridenour on the significance of satellites to man's store of knowledge and that of Francis Clauser on the possibility of man in space But the most riveting observation one that deserves an honored place in the Central Premonitions Registry was made by one of the contributors Jimmy Lipp head of Project RAND's Missile Division in a follow on paper nine months later Since mastery of the elements is a reliable index of material progress the nation which first makes significant achievements in space travel will be acknowledged as the world leader in both military and scientific techniques To visualize the impact on the world one can imagine the consternation and admiration that would be felt here if the United States were to discover suddenly that some other nation had already put up a successful satellite

Preliminary Design of an Experimental World-circling Spaceship Douglas Aircraft Company, Inc., F. H. Clauser, 1946 Hypothetical Spacecraft and Interstellar Travel Ezekiel Nygren, 2015-02-28 Hypothetical

Spacecraft and Interstellar Travel collects information about the latest and greatest hypothetical spacecraft **Dark Side of the Moon** Gerard Degroot, 2006-11-01 A selection of the History Scientific American and Quality Paperback Book Clubs For a very brief moment during the 1960s America was moonstruck Boys dreamt of being an astronaut girls dreamed of marrying one Americans drank Tang bought space pens that wrote upside down wore clothes made of space age Mylar and took imaginary rockets to the moon from theme parks scattered around the country But despite the best efforts of a generation of scientists the almost foolhardy heroics of the astronauts and 35 billion dollars the moon turned out to be a place of magnificent desolation to use Buzz Aldrin's words a sterile rock of no purpose to anyone In Dark Side of the Moon Gerard J DeGroot reveals how NASA cashed in on the Americans' thirst for heroes in an age of discontent and became obsessed with putting men in space The moon mission was sold as a race which America could not afford to lose Landing on the moon it was argued would be good for the economy for politics and for the soul It could even win the Cold War The great tragedy is that so much effort and expense was devoted to a small step that did virtually nothing for mankind Drawing on meticulous archival research DeGroot cuts through the myths constructed by the Eisenhower Kennedy and Johnson

administrations and sustained by NASA ever since He finds a gang of cynics demagogues scheming politicians and corporations who amassed enormous power and profits by exploiting the fear of what the Russians might do in space Exposing the truth behind one of the most revered fictions of American history Dark Side of the Moon explains why the American space program has been caught in a state of purposeless wandering ever since Neil Armstrong descended from Apollo 11 and stepped onto the moon The effort devoted to the space program was indeed magnificent and its cultural impact was profound but the purpose of the program was as desolate and dry as lunar dust **On the Edge of Earth** Steven Lambakis,2014-04-23 Interesting and provocative Recommended for anyone interested in space policy and national security affairs Choice The United States has long exploited Earth s orbits to enhance security generate wealth and solidify its position as a world leader America s ambivalence toward military activities in space however has the potential to undermine our future security Some perceive space as a place to defend and fight for America s vital interests Others whose voices are frequently dominant and manifested in public rhetoric funded defense programs international diplomacy and treaty commitments look upon space as a preserve not to be despoiled by earthly strife After forty years of discussion the debate over America s role in space rages on In light of the steady increase in international satellite activity for commercial and military purposes America s vacillation on this issue could begin to pose a real threat to our national security Steven Lambakis argues that this policy dysfunction will eventually manifest itself in diminished international political leverage the forfeiture of technological advances and the squandering of valuable financial resources Lambakis reviews key political military and business developments in space over the past four decades Emphasizing that we should not take our unobstructed and unlimited access to space for granted he identifies potential space threats and policy flaws and proposes steps to meet national security demands for the twenty first century Provides a wealth of details on a wide range of factors that contribute to space power Air Space Power Journal Will trigger public debate generate controversy and add creatively to the policy debate John D Stempel author of Common Sense and Foreign Policy *Satellite* Doug Millard,2016-11-15 Right now above our heads nearly imperceptible to us but hugely important to how we live are thousands of man made objects that we have sent into space Ubiquitous but mysterious satellites are the technological infrastructure of our globally connected world helping us do everything from orient ourselves on a map to watch our favorite television shows Yet we rarely ever think about them In this book Doug Millard pays overdue tribute to the stoic existence of the satellite tracing its simultaneous pathways through the cold silence of space and the noisy turbulence of the past century How satellites ever came to be is in itself a remarkable story Telling an astonishing history of engineering experimentation and ingenuity Millard shows how the Cold War space race made the earliest satellites ones like Sputnik Telstar and Early Bird household names He describes how they evolved into cultural signifiers that represented not only our scientific capabilities but our capacity for imagination our ability to broaden the scope of our vision to the farthest reaches From there he follows the proliferation of

satellites in the second half of the twentieth century examining their many different forms how they evolved all the things they do what they have enabled and how they have influenced our popular culture Ultimately Millard asks what we can still expect what sort of space age the satellite has initiated that is yet to be fully realized Published in association with the Science Museum London this beautifully illustrated book will appeal to any fan of space exploration and technology

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 The 1967 Outer Space Treaty designated space as the province of all mankind It expressly prohibited nuclear and non nuclear weapons of mass destruction in orbital space and exclusively limited the use of the Moon and other celestial bodies for peaceful purposes But changes in the post Cold War world as well as unforeseeable advances in satellite and weapons technologies have compelled every space faring nation save the U S and Israel to go on record as favoring a new treaty for the Prevention of an Arms Race in Outer Space In Twilight War The Folly of U S Space Dominance Mike Moore former editor of *The Bulletin of the Atomic Scientists* argues that the U S merely provokes conflict when it presumes to be the exception to the rule Rejecting treaty negotiations while further militarizing space renders America unable to lead by example Moore concludes that instead of trying to stop an arms race in space by starting one the U S must radically rethink its strategy

Reconsidering Sputnik Roger D. Lanius, John M. Logsdon, Robert W. Smith, 2013-05-13 This book explores Russia's stunning success of ushering in the space age by launching Sputnik and beating the United States into space It also examines the formation of NASA the race for human exploration of the moon the reality of global satellite communications and a new generation of scientific spacecraft that began exploring the universe An introductory essay by Pulitzer Prize winner Walter A McDougall sets the context for Sputnik and its significance at the end of the twentieth century

Service Industries Development Act United States. Congress. Senate. Committee on Commerce, Science, and Transportation, 1981

U.S. Civilian Space Policy United States. Congress. Senate. Committee on Commerce, Science, and Transportation.

Subcommittee on Science, Technology, and Space, 1979 *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

Critical Issues in the History of Spaceflight Stephen J. Dick, Steven J. Dick, Roger D. Launius, 2006 In March 2005 the NASA History Division and the Division of Space History at the National Air and Space Museum brought together a distinguished group of scholars to consider the state of the discipline of space history This volume is a collection of essays based on those deliberations The meeting took place at a time of extraordinary transformation for NASA stemming from the new Vision of Space Exploration announced by President George W Bush in January 2004 to go to the Moon Mars and beyond This Vision in turn stemmed from a deep reevaluation of NASA's goals in the wake of the Space Shuttle Columbia accident and the recommendations of the Columbia Accident Investigation Board The new goals were seen as initiating a New Age of Exploration and were placed in the context of the importance of exploration and discovery to the American experience

Amazon *Operation Moonglow* Teasel Muir-Harmony, 2020-11-24 The moon landing was an important moment in history but many forget what was happening behind the scenes discover the groundbreaking political history of the Apollo program in this riveting exploration of America's space missions Since July 1969 Neil Armstrong's first step on the Moon has represented the pinnacle of American space exploration and a grand scientific achievement Yet as Smithsonian curator Teasel Muir-Harmony argues in *Operation Moonglow* its primary purpose wasn't advancing science Rather it was part of a political strategy to build a global coalition Starting with President John F Kennedy's 1961 decision to send astronauts to the Moon to promote American freedom over Soviet tyranny Project Apollo was central to American foreign relations From that perspective the critical event did not just take place on the lunar surface it took place in homes public squares palaces and schools around the world as Apollo captured global attention like never before After the Moon landing the Apollo astronauts and President Richard Nixon traveled the world to amplify the sense of participation and global unity shared by billions of people who followed the flight Drawing on a rich array of untapped archives and firsthand interviews with Apollo astronauts *Operation Moonglow* paints a riveting picture of the intersection of spaceflight geopolitics propaganda and diplomacy during the Cold War

Welcome to Mars Ken Hollings, 2014-03-18 *Welcome to Mars* is a captivating look at the culture of postwar America and its dream of limitless technological and human development Utilizing declassified government archives newspaper records ad campaigns and B movies of the period Hollings weaves an intricate web of Cold War politics UFO scares psychedelic research and 1950s pop culture From the atom bomb and suburban planning to the space race and little green men movies *Welcome to Mars* shows the startling connections between science fact and science fiction a feedback loop in which real technological advances and government experimentation gave rise to science fiction fantasy which then fed new innovation and research

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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

Space Policy in Developing Countries Robert C. Harding, 2013 This book analyses the rationale and history of space programs in countries of the developing world Space was at one time the sole domain of the wealthiest developed countries However the last couple of decades of the twentieth century and the first decade of the twenty first century have witnessed the number of countries with state supported space programs blossom Today no less than twenty five developing states including the rapidly emerging economic powers of Brazil seventh largest China second largest and India fourth largest possess active national space programs with already proven independent launch capability or concrete plans to achieve it soon This work places these programs within the context of international relations theory and foreign policy analysis The author categorizes each space program into tiers of development based not only on the level of technology utilised but on how each fits within the country's overall national security and or development policies The text also places these programs into an historical context which enables the author to demonstrate the logical thread of continuity in the political rationale for space capabilities generally This book will be of much interest to students of space power and politics development studies strategic studies and international relations in general

To Rule the Skies Brent D Ziarnick, 2021-02-15 To Rule the Skies General Thomas S Power and the Rise of Strategic Air Command in the Cold

War fills a critical gap in Cold War and Air Force history by telling the story of General Thomas S Power for the first time Thomas Power was second only to Curtis LeMay in forming the Strategic Air Command SAC one of the premier combat organizations of the twentieth century but he is rarely mentioned today What little is written about Power describes him as LeMay s willing hatchet man uneducated unimaginative autocratic and sadistic Based on extensive archival research General Power seeks to overturn this appraisal Brent D Ziarnick covers the span of both Power s personal and professional life and challenges many of the myths of conventional knowledge about him Denied college because his middle class immigrant family imploded while he was still in school Power worked in New York City construction while studying for the Flying Cadet examination at night in the New York Public Library As a young pilot Power participated in some of the Army Air Corps most storied operations In the interwar years his family connections allowed Power to interact with American Wall Street millionaires and the British aristocracy Confined to training combat aircrews in the United States for most of World War II Power proved his combat leadership as a bombing wing commander by planning and leading the firebombing of Tokyo for Gen Curtis LeMay After the war Power helped LeMay transform the Air Force into the aerospace force America needed during the Cold War A master of strategic air warfare he aided in establishing SAC as the Free World s Big Stick against Soviet aggression Far from being unimaginative Power led the incorporation of the nuclear weapon the intercontinental ballistic missile the airborne alert and the Single Integrated Operational Plan into America s deterrent posture as Air Research and Development Command commander and both the vice commander and commander in chief of SAC Most importantly Power led SAC through the Cuban Missile Crisis in 1962 Even after retirement Power as a New York Times bestselling author brought his message of deterrence through strength to the nation Ziarnick points out how Power s impact may continue in the future Power s peerless but suppressed vision of the Air Force and the nation in space is recounted in detail placing Power firmly as a forgotten space visionary and role model for both the Air Force and the new Space Force To Rule the Skies is an important contribution to the history of the Cold War and beyond *High Frontier* Curtis

Peebles,1998-04 *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 Survival Imperative William E. Burrows, 2007-04-01 Using Space to Save Earth Veteran science journalist William E Burrows offers a bold new mission for the U S space program to protect the Earth from the ever growing number of perils that threaten our way of life and even our very survival We are living through one of the most dangerous times in human history Nuclear chemical and biological weapons technology are proliferating and missile technology is falling into more and more hands Extreme natural disasters like hurricanes floods fires and earthquakes are becoming increasingly costly not only in dollars but in lives as population expands Environmental crises threaten to provoke massive famines and widespread social collapse Asteroids the size of battleships streak within striking distance of the earth every year One strategy offers the best hope of protecting us from all of these dangers a revitalized national space program that coordinates efforts in global defense in environmental protection in communications and in military security The Survival Imperative offers an impassioned argument for this bold initiative To demonstrate the urgency of his cause Burrows presents a vivid scenario an impact by a moderately large asteroid that triggers a series of nuclear exchanges environmental devastation and the slow disintegration of civilization And he examines the existing space program from the heady days of the Moon landing through the political compromises that have characterized the history of NASA in the 35 years following our retreat from the Moon Most of all Burrows warns that the primary obstacle to achieving a true planetary defense program is not financial or scientific but social an unwillingness to acknowledge the urgency of the crisis and to take the political risks needed to address it The question says Burrows is not whether we can do it but whether we will act before it s too late At the Publisher s request this title is being sold without Digital Rights Management Software DRM applied

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