



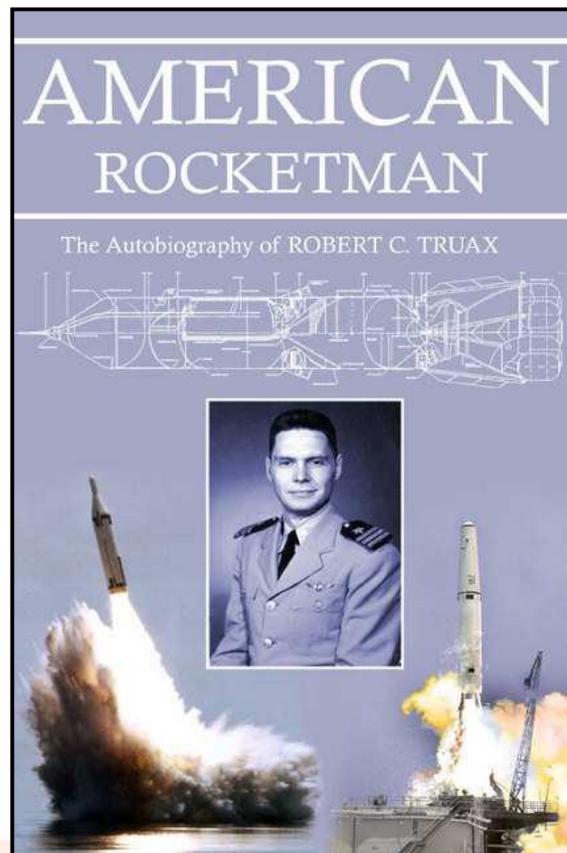
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## ASTRONOMY & SPACE 2021



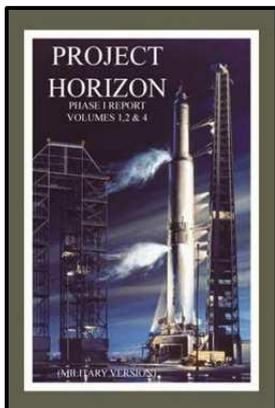
### NEW TITLES

- Apogee Books • ATF Press
- Bookbaby • Chicago Review Press
- Fort Point Press • Ibidem Press
- Interactive Publications • Nova Science Publishers
- Republic Book Publishers • Schiffer Publishing

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### Apogee Books



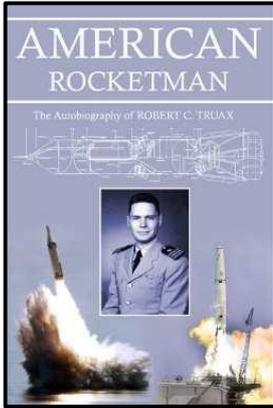
#### Project Horizon (Military Version)

Robert Godwin

In the first two months of 1958 President Eisenhower ordered the creation of a new department at the Pentagon, the Advanced Research Projects Agency, or ARPA. One of the first tasks appointed to ARPA was to choose which branch of the military would handle the country's space program. Almost arbitrarily ARPA chose the Air Force. This decision stood for just a few months before the President announced the formation of NASA, but it became clear to the heads of the U.S. Army that they were running second in a two horse race. The Pentagon would only be allowed into space if they could persuade the President that there was a military need to be there. Almost immediately the Air Force and the Army produced their rival visions for operating off-world. The Army team led by Generals Medaris and Trudeau turned to Wernher von Braun whose team presented a long-term plan based around their new one-million pound rocket the Juno V; but the Air Force went all-out and showed its plans for strategic domination by building a moon base.

In March 1959 the Army responded with its own vision for a moon base which they called "*Project Horizon*." The plan was conceived and presented to the President in June 1959 and was immediately recognised as a useful beginning for a civilian moon base, and so the report was reduced from 800 pages to 400 pages and given to NASA.

PB 9781989044070 £36.95 September 2019 Apogee Books 358 pages



## American Rocketman

Robert C. Truax

Imagine Huckleberry Finn grew up to be a Jack Kerouac character, but instead of wandering aimlessly in search of a purpose he joined the military and decided he wanted to be Flash Gordon...read on.

This is the life-story of Robert C. Truax - a story that could only have happened in the United States of America.

Told entirely in his own words *American Rocketman* takes the reader on a trip through the 20th century – from the hardships of pioneering on the frontier of the American West, to the Final Frontier.

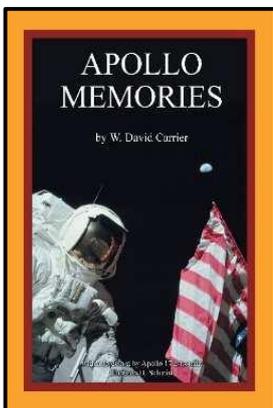
Robert Truax grew up shoeless, living in a log cabin built entirely by his father and mother using only basic tools and their bare hands.

His story of dauntless entrepreneurialism, duty to his country and creative genius epitomizes the American spirit. Big dreams and big accomplishments are tempered by the roadblocks put in the way of reaching for the stars.

If you ever wondered who really proposed the United States' "Space Force"; or who designed the biggest rocket ever conceived; or who came up with the critical components that made the Space Shuttle engines work; or who outcompeted Robert Goddard, the inventor of the liquid fuelled rocket – read on.

From abject poverty, to leading the team that brought the United States some of its most important Cold War missile deterrents, to the hi-jinks of trying to launch daredevil Evel Knievel across a massive river canyon in front of a live TV audience, Truax navigates the reader through his remarkable life of adventure with his own personal brand of humour and optimism.

PB 9781989044155 £28.95 March 2021 Apogee Books 270 pages



## Apollo Memories

W. David Carrier

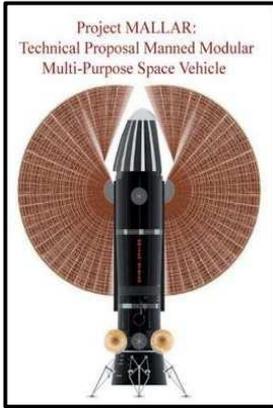
*Apollo Memories* is the personal memoir of Dr W. David Carrier, one of the scientists who prepared the Apollo astronauts to do science on another world.

Dr. Carrier was responsible for the development and performance of lunar soil experiments in support of the Apollo program at the NASA Manned Spacecraft Center in Houston. His activities included astronaut training, design of lunar surface experiments, and laboratory testing of returned lunar soil.

It was Dr. Carrier who told Neil Armstrong and Buzz Aldrin how deep they were going to sink into the lunar surface. He was a member of the science support team in Mission Control and a member of the Lunar Sample Preliminary Examination Team in the Lunar Receiving Laboratory during each of the Apollo missions.

In *Apollo Memories*, using his own words and some of the most famous photographs ever taken, Dr. Carrier takes the reader back to the heady days of the first manned lunar explorations and puts the science into context. Although 400,000 people worked on the Apollo program only a select few were given the opportunity to directly work with the astronauts to prepare them for mankind's greatest adventure. Dr. Carrier earned that opportunity

PB 9781989044117 £30.75 September 2020 Apogee Books 144 pages



## Technical Proposal for Manned Multi Modular Spacecraft (Project MALLAR)

Conrad Lau, Robert Godwin

In the Spring of 1961 President John Kennedy challenged his country to place humans on the moon and return them to Earth by the end of the decade. It seemed an audacious proposal to outside observers, but also to the heads of the two-year old National Aeronautics and Space Agency.

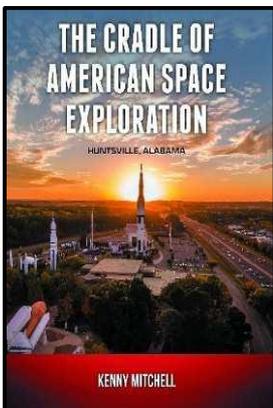
What had been lost in the political cloud and excitement surrounding the President's challenge was the fact that there were people in the aerospace community, outside of NASA, who were sure that a manned mission to the moon was possible within ten years, and they had known this since at least 1958, when NASA didn't even exist.

These enthusiastic advocates included the German rocket scientists working for the Army under Wernher von Braun; a team of military engineers working for the U.S. Air Force under General Bernard Schriever; and a team of engineers working under Conrad Lau at the Vought Aircraft Astronautics Division whose efforts remained largely unknown.

Between the Spring of 1958 and Christmas 1959 Lau and his team worked out the most effective way to get to the moon using the advanced rockets being proposed by von Braun's team.

Following a visit by their ebullient congressman, Olin Teague, Vought's manager John Clark sent Lau's report to Abe Silverstein, head of manned space flight at NASA. Less than a month later Silverstein ordered his advanced design leader, Robert Piland, to essentially work from Lau's ideas to create a modular spacecraft system for Apollo. It would be two years later that NASA would then adopt the method resurrected by Lau to leave the main spacecraft in lunar orbit to save fuel.

PB 9781989044094 £31.25 January 2020 Apogee Books 252 pages



## The Cradle of American Space Exploration

Kenny Mitchell

At the end of World War II, the U.S. government transferred Dr. Wernher von Braun and his team of scientists from Germany to America. No one could have imagined that the greatest engineering feat in human history would result. Working together, the Germans and their American counterparts became the Apollo team capable of responding to a presidential challenge issued in 1962 to take mankind to the Moon before the decade's end. NASA's Marshall Space Flight Center was the platform and team think tank that produced one of the most awe-inspiring machines ever built, the Saturn V rocket. In 1969, the Apollo/Saturn V team and their miracle of engineering landed two men on the Moon and provided the means of returning the three-man crew safely to Earth. Like the fire and billowing smoke of the mighty Saturn V, the fusion of German, American and Apollo cultures became evidenced in the surrounding economic, academic and social environments. One of the most advanced engineering and scientific communities in the world emerged: Huntsville, Alabama, Rocket City USA. Kenny Mitchell, a retired NASA engineer and consultant, began his career in Huntsville in 1959 as a co-op student at the Army Ballistic Missile Agency located at Redstone Arsenal. He worked his way up the ladder and managed many NASA projects, including establishing the first NASA office in Moscow, Russia as a U.S. diplomat. Mitchell lived the Apollo era first-hand, meticulously documenting his experience while also conducting exhaustive research into the contributions made by the men and women of Marshall Space Flight Center. Complete with untold stories of historical accounts, this book is a valuable resource for the next generation of space explorers whose contributions will continue the legacy. It gives special insight into the origins of the unique character of the city known as "*the Cradle of American Space Exploration.*"

PB 9781989044049 £24.99 January 2019 Apogee Books 196 pages



## Proposal for Man-in-Space (1957-1958)

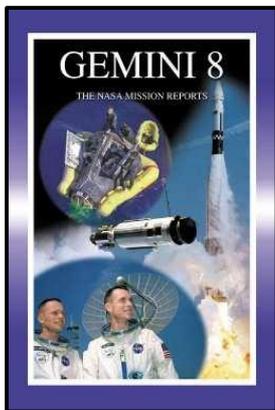
Robert Godwin

On October 4th 1957 the Soviet Union launched Sputnik, inaugurating the Space Age. To the general public and many politicians in the West the small satellite racing overhead was a shocking and frightening display of communist technological advance. But in the back rooms of the Pentagon and the headquarters of the United States' Air Force, work had been underway since the end of World War II on the inevitability of space flight.

The shock of Sputnik created an opportunity to bring this work into the light of day. During the 12 months between October 1957 and September 1958 engineers, doctors and a host of Air Force Colonels and Generals began a concerted effort to persuade President Eisenhower to allow them to take control of the United States' future space efforts, and to place humans into space no later than 1960 and then send them to the surface of the moon by 1964.

In February 1958, without going through the usual gauntlet of hearings the Air Force brass were informed that they were in charge of the country's space program. Emboldened by this unexpected surprise a team of more than 60 Air Force staff quickly put together a long-range plan for the exploration of space.

PB 9781989044063 £28.45 January 2019 Apogee Books 160 pages



## Gemini 8

### The NASA Mission Reports

Apogee Books

The sixth manned Gemini mission was to be the first to emphatically prove that two spacecraft could meet and join in space. The task of pulling off this important flight was given to two of NASA's brightest recruits - David Scott and Neil Armstrong. Both men had worked for years in the test-pilot arena and both were highly skilled engineers.

A high level of confidence pervaded the team at NASA's Manned Spaceflight Center because only a few months earlier they had successfully placed two Gemini spacecraft into orbit and brought them within a few feet of each other. The crew of Gemini 7 had then gone on to spend days in the cramped confines of the Gemini spacecraft with no long-term effects.

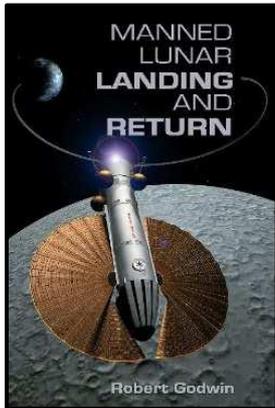
Now it was the turn of *Gemini 8* to chase down an unmanned target vehicle known as Agena. Once the two orbits were precisely matched Command Pilot Neil Armstrong would then gradually nudge the Gemini into position, and with some skill, and years of preflight work, he would be able to dock the two together.

No one had ever done this before and the entire future of NASA's plans to get to the moon were riding on his ability to complete the mission. What no one knew was that a minor fault had been hiding away in the miles of wiring inside the Gemini spacecraft waiting to spring the worst kind of surprise on the unsuspecting crew and the team back on the ground.

Neil Armstrong and David Scott would have to prove that their years of training supported by nerves of steel could overcome this unforeseen obstacle and get them home safely.

In this book you will find the original NASA documents explaining what was expected of the crew of *Gemini 8*, and what then came at them unexpectedly and very nearly sacrificed them to the unforgiving void of space.

PB 9781989044056 £27.99 January 2019 Apogee Books 386 pages



## Manned Lunar Landing and Return

Robert Godwin

Even fifty years later there are still important stories waiting to be told about how humans first walked on another world; such as the one in this book.

Take a trip back to the 1950s when the Chance Vought Company, builders of some of America's top fighter aircraft, were quietly figuring out how to get men to the moon using something they called Project MALLAR.

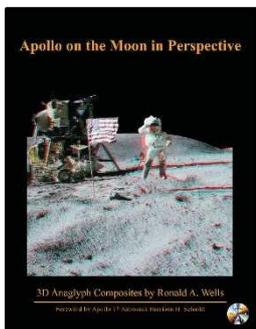
It is the story of a team of engineers who built some of the most sophisticated space simulators in the world, where almost all of the Mercury and Gemini astronauts learned the art of spaceflight. This same team produced the first serious plan to use modular spacecraft and a technique called Lunar Orbit Rendezvous to make it possible to get to the moon.

This book also reveals how for several years rocket genius Wernher von Braun *overlooked his own ideas*, before having them reintroduced back to him because of Project MALLAR, and how Vought's fighter aircraft weaved in and out of the Apollo story and then contributed to almost every major airliner in the sky today.

Included are rare illustrations, some from recently declassified reports, of the earliest designs for the rockets and spacecraft that led to the greatest technological achievement in human history.

In *Manned Lunar Landing And Return*, Robert Godwin takes the reader back to the time long *before* President Kennedy made his famous proclamation to reach for the moon and reveals one critical thread in the trail of genius which ended in the Sea of Tranquility.

PB 9781926837420 £21.99 May 2019 Apogee Books 132 pages



## Apollo on the Moon in Perspective

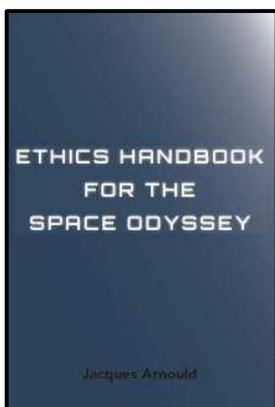
Ronald A. Wells

Book & DVD-ROM.

The Apollo lunar surface photos are a national treasure - scenes which should be seen by everyone through the eyes of the photographers. Fortunately, with the aid of modern computer software many of the photos can be so viewed in 3D. *Apollo on the Moon in Perspective* includes over 150 pages of 3D anaglyphs created painstakingly by the author.

PB 9781926837413 £24.99 January 2019 Apogee Books 152 pages

## ATF Press



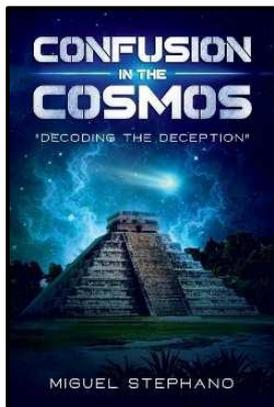
## Ethics Handbook for the Space Odyssey

Jacques Arnould

With his particular questioning style, Jacques Arnould takes us on a journey through the history of space exploration and utilisation from a multidisciplinary perspective. This book deals with philosophical and societal questions, national and international policy, legal and responsibility aspects. By asking the right questions, Jacques helps us understand many of the questions most humans ask themselves about why, what, for whom, for how long and how humanity will (or should) expand its presence in and benefit from outer space.

The French CNES is the first space agency that decided to employ an expert in the ethics of space activities, and the International Space University and the University of South Australia are the only where space ethics is regularly taught in its programs as part of its unique multidisciplinary curricula.

HB 9781925612189 £26.99 April 2020 ATF Press 122 pages

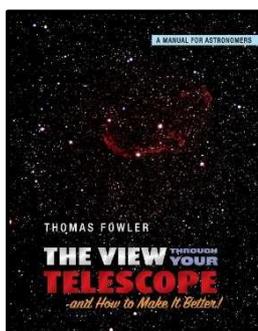


## **Confusion in the Cosmos Decoding the Deception**

Miguel Stephano

A scriptural review of Cosmology and Deception unlike anything you've ever read. Do you struggle with the complexity of a Most-High Creator, Angels, Demons, Earth and Space? This book will be an eye-opener by enhancing your worldview regarding our true Cosmology and the things that are intentionally hidden from us today. We will rebuild the Cosmos as described from all Biblical references describing the Creation of the Universe, and reveal a new understanding of how it all comes to an end. A great book for the curious and anyone interested in learning the misunderstood aspects of the Bible and other ancient texts!

PB 9781543996159 £17.99 January 2020 BookBaby 390 pages

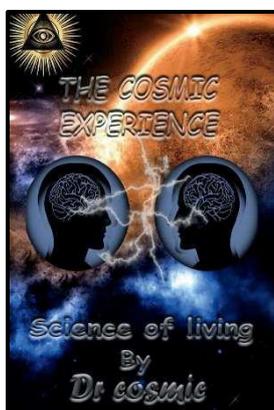


## **The View Through Your Telescope and How to Make It Better! A Manual for Astronomers**

Thomas Fowler

This book looks at the performance limitations of telescopes, the reasons for them, and how to overcome them with new and emerging technology. It covers many questions of interest that often puzzle amateur astronomers such as • Why does my telescope not show me the "pretty pictures" that I see on websites and telescope boxes? • Why do larger telescopes make stars but not galaxies brighter? • What are the limitations of the human eye, and how can they be overcome? • Why are stars that are larger and brighter than the Sun so dim in the night sky? • Why do I need an eyepiece at all with my telescope, since my eye has a lens in it? • Why can I see things like galaxies at all when catalogs say that they have surface brightness of magnitude 22? • Why do stars look big on photographs, but not when I view them in the night sky? • How do I estimate how large star images will become? • How faint an object can I see or image, and how long will it take? • What are the trade-offs when choosing a telescope? • What should I look for in eyepieces? The book includes many graphs to explain technical points and make it easier for readers to apply the results obtained in the text. It summarizes the main points for each chapter, and includes summary charts for important formulas. It also includes many photographs to further illustrate both the technical points and what can be done by amateur astronomers of various skill levels. The main thrust of the book is to show that limitations of the human visual system push us to use modern digital imaging technology to achieve our goal of great views of astronomical objects at the telescope ("Electronically Enhanced Astronomy").

PB 9781543978575 £62.99 September 2019 BookBaby 360 pages

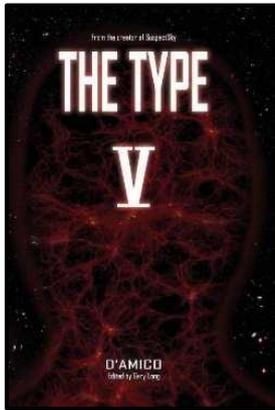


## **The Cosmic Experience Science of living**

Dr Cosmic

This book allows the individual access to the higher realms which orchestrate 3rd Dimensional reality.

PB 9781098346386 £18.99 December 2020 BookBaby 154 pages

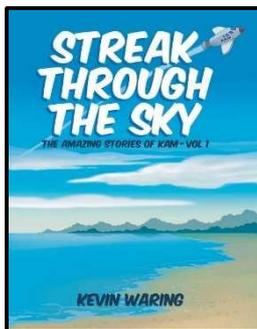


## **The Type V** **From the Creator of Suspectsky**

Adrian D'Amico

Where is everyone? The idea that we are alone in the universe is not supported by recent scientific advances. As a people, we possess the need to explore and to discover whether or not other civilizations exist "out there." There is a community of like-minded individuals who possess Renaissance modes of thought that may in fact discover the answers we have been looking for. This book will identify the methods of measuring civilization, why it is important, and what we can expect to find as we expand the sphere of human influence. Join us as we take a journey through the current techniques of detecting and classifying non-terrestrial civilization. Does our present search methodology conform with what we expect rational civilizations to undertake? Are there other interpretations hidden that could better explain our celestial community. [suspectsky.com](http://suspectsky.com) [youtube.com/SuspectSky](https://www.youtube.com/SuspectSky)

PB 9781543956597 £22.99 February 2019 BookBaby 124 pages

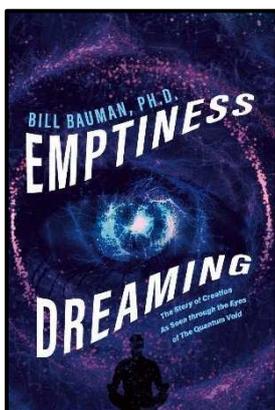


## **Streak Through the Sky** **The Amazing Stories of Kam - Vol 1**

Kevin Waring

*Streak Through The Sky* is a story about Kam, a smart, elementary school kid who lives with his father and loves science. His father works as an engineer for a space company and comes home with exciting stories to fill Kam's imagination and curiosity. Kam's ideas sometimes leads him to work on projects some may say are out of his league. I have experienced people thinking I am in over my head but like Kam it doesn't stop me from still trying. This book is about dreaming, being persistent, and daring to do amazing things. Even when distractions are in your way. It's ok to believe in yourself and *Streak Through the Sky*. Skills *Streak Through The Sky* encourage: Persistence Individuality Learning to not give up. Learning to dream big. Inspiring interest in the sciences. Inspiring interest in space. This story is about inspiring kids to dare to be great. To not be afraid to put in time to reach goals others may deem impossible to reach. I want kids to know that being persistent in what you believe in is ok and will yield you great results. Simultaneously I want kids to be inspired to take a look at the sciences and space. Space is still a vast subject that we have only brushed the surface of and science is always changing. The future is truly a playground for our up and coming scientist.

HB 9781543972078 £22.99 June 2019 BookBaby 44 pages

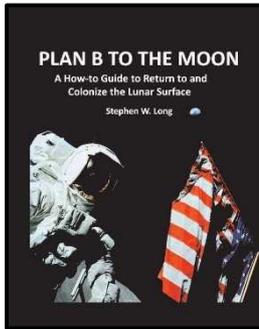


## **Emptiness Dreaming** **The Story of Creation as Seen through the Eyes of the Quantum Void**

Bill Bauman

"*Emptiness Dreaming*" is an innovative, revolutionary exposé of the nature of creation—including multiple dimensions and our very own human existence! Prepare to explore a pioneering new theory of cosmology, derived from a rarely explored source: the Quantum Void! Bill Bauman leads readers through a compelling, eye-opening voyage in a digestible, step-by-step way— first, through the little-understood mysteries of the quantum world's invisible power, then into the very secretive depths of the quantum void itself: the completely empty, absolute zero zone of pure nothingness. Complete with visionary interpretations to well over 150 citations of current quantum physics studies and physics scholars and experts from related disciplines, Bauman expresses these confounding ideas in language that is easy for the curious, open-minded non-scientist to understand.

PB 9781098346690 £18.99 March 2021 BookBaby 246 pages



## **Plan B to the Moon** **A How-to Guide to Return to and Colonize the Lunar Surface** Stephen W. Long

*Plan B to the Moon* presents a coherent executable plan, readable and believable story, that defines how to return humans to the surface and colonize the Moon. Considerable effort went into making this book relatable to non-experts (non-rocket-scientists). Do you have within you the profound, burning desire to explore? Were you inspired in your youth by the opening sequence of Star Trek episodes, "To Seek out New Worlds and New Civilizations?" If your answers are lukewarm yes or emphatic no, there may be little anyone can say to you to convince you of the profound need for and premise of space exploration. But consider these facts, we carry in our DNA the need for exploration. Every person alive today is the descendent of explorers and wanderers. Exploration is central to who we are as humans. Only our ancestors that left their old homes to find new homes survived. The people that stayed behind did not survive catastrophic change and their stay-behind DNA no longer has any influence over the future of our species. There are tens of thousands of fictional stories based on science that eloquently dream of living in space. Future heroes travel to the stars in city-sized spacecraft. Vast colonies of eager humans scratch out new lives on new worlds. However, *Plan\_B* makes the admittedly rude observation that none of these dreams of the future actually ever tell you HOW to do it. None of such fictional stories explain how to build a functioning spacecraft or how to build a lunar habitat suitable for extended human exploration. None of these prior stories-based-on-science ever explain what it costs to create these spacecraft marvels. They never provide an engineering road-map describing the practical, needed steps to turn such space dreams into space reality. Perhaps this book, based on a real Program Plan, written by a Program Manager is the genesis of a new genus of space dreams. This is not a dream book, it is a guidebook to the touchable near future.

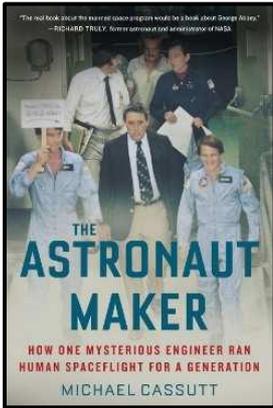
HB 9781543966626 £54.99 May 2019 BookBaby 224 pages



## **Kira and Lulu Visit the Planets** Kat Davidson

Space Weather News' second Children's Book, '*Kira and Lulu Visit the Planets*' is now available! In their first adventure, 'Kira and Lulu Visit the Sun', children are introduced to our star, sunspots and solar flares. Join Kira and Lulu as they take a new journey to learn about the planets in our solar system! Learn why each planet is special - can you name them all by the time their trip is over? Complete with captivating, bright illustrations, this book will be a perfect gift for young ones! The Kira and Lulu books were inspired by the real Kira and her sweet, inquisitive nature to learn. Illustrations were a labor of love by Kira's Mom (Kat) and Grandma Karen. All art in this book is rendered in acrylic. We sincerely hope you and yours enjoy the books as much as we did creating them!

HB 9780578411521 £18.99 February 2019 BookBaby 24 pages



## The Astronaut Maker How One Mysterious Engineer Ran Human Spaceflight for a Generation

Michael Cassutt

One of the most elusive and controversial figures in NASA's history, George W. S. Abbey was called "the Dark Lord," "the Godfather," and "UNO"—short for unidentified NASA official. He was said to be secretive, despotic, a Space Age Machiavelli. Yet Abbey had more influence on human spaceflight than almost anyone in history. His story has never been told—until now. *The Astronaut Maker* takes readers inside NASA to learn the real story of how Abbey rose to power, from young pilot and wannabe astronaut to engineer, bureaucrat, and finally director of the Johnson Space Center. During a thirty-seven-year career, mostly out of the spotlight, he oversaw the selection of every astronaut class from 1978 to 1987, deciding who got to fly and when. He was with the Apollo 1 astronauts the night before the fatal fire in January 1967. He was in mission control the night of the Apollo 13 accident and organized the recovery effort. Abbey also led NASA's recruitment of women and minorities as space shuttle astronauts and was responsible for hiring Sally Ride. Written by Michael Cassutt, the coauthor of the acclaimed astronaut memoirs *DEKE!* and *We Have Capture*, and informed by countless hours of interviews with Abbey and his family, friends, adversaries, and former colleagues, *The Astronaut Maker* is the ultimate insider's account of ambition and power politics at NASA.

PB 9781641603188 £17.99 June 2020 Chicago Review Press 480 pages

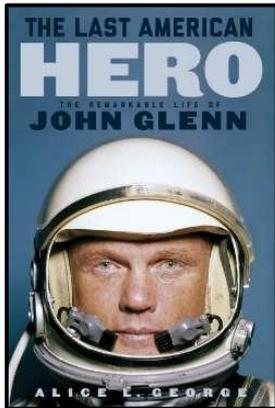


## Women in Space 23 Stories of First Flights, Scientific Missions, and Gravity-Breaking Adventures

Karen Bush Gibson

When Valentina Tereshkova blasted off aboard Vostok 6 on June 16, 1963, she became the first woman to rocket into space. It would be 19 years before another woman got a chance—cosmonaut Svetlana Savitskaya in 1982—followed by American astronaut Sally Ride a year later. By breaking the stratospheric ceiling, these women forged a path for many female astronauts, cosmonauts, and mission specialists to follow. *Women in Space* profiles 23 pioneers, including Eileen Collins, the first woman to command the space shuttle; Peggy Whitson, who logged more than a year in orbit aboard the International Space Station; and Mae Jemison, the first African American woman in space; as well as astronauts from Japan, Canada, Italy, South Korea, France, and more. Readers will also learn about the Mercury 13, American women selected by NASA in the late 1950s to train for spaceflight. Though they matched and sometimes surpassed their male counterparts in performance, they were ultimately denied the opportunity to head out to the launching pad. Their story, and the stories of the pilots, physicists, and doctors who followed them, demonstrate the vital role women have played in the quest for scientific understanding.

PB 9781641603133 £11.99 March 2020 Chicago Review Press 240 pages



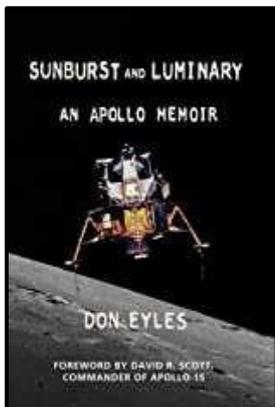
## The Last American Hero The Remarkable Life of John Glenn

Alice L. George

On February 20, 1962, John Glenn became a national star. That morning at Cape Canaveral, the small-town boy from Ohio took his place atop a rocket and soared into space. He became celebrated in all corners of the world as not just the first American to orbit the Earth, but as the first space traveler to take the human race with him. Refusing to let that dramatic day define his life, he went on to become a four-term US senator—and returned to space at the age of seventy-seven. *The Last American Hero* is a stunning examination of the layers that formed the man: a hero of the Cold War, a two-time astronaut, a veteran senator, a devoted husband and father, and much more. At a time when an increasingly cynical world needs heroes, John Glenn's aura burns brightly in American memory.

HB 9781641602136 £27.99 November 2020 Chicago Review Press 368 pages

## Fort Point Press



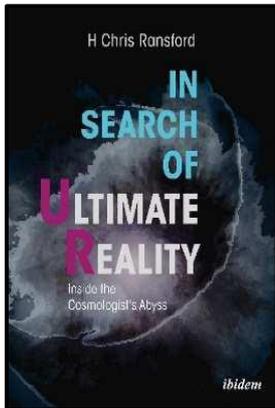
## Sunburst and Luminary An Apollo Memoir

Don Eyles

In 1966 the author, newly graduated from college, went to work for the MIT laboratory where the Apollo guidance system was designed. His assignment was to program the complex lunar landing phase in the Lunar Module's onboard computer. As Apollo 11 approaches, the author flies lunar landings in simulators and meets the astronauts who will fly the LM for real. He explains the computer alarms that almost prevented Neil Armstrong from landing and describes a narrow escape from another dangerous problem. On Apollo 14 he devises a workaround when a faulty pushbutton threatens Alan Shepard's mission, earning a NASA award, a story in *Rolling Stone*, and a few lines in the history books. This memoir is a new kind of book about Apollo. It tells a story never told before by an insider -- the development of the onboard software for the Apollo spacecraft. It makes a vertical connection between technical details and historic events, but by broadening the story using his own experiences as he grows into adulthood in the 1960s the author draws a parallel between that era of successful space exploration, and the exploration, inner and outer, that was taking place in the culture.

**About the Author:** Don Eyles worked on the Apollo Project from 1966 through 1972, and on the NASA space program until 1998, as a computer scientist at the MIT Instrumentation Lab and the Charles Stark Draper Laboratory in Cambridge, Massachusetts. He created flight software for the lunar landing phase of the Moon mission, and invented a sequencing system that is currently in operation on the International Space Station. At present he is a writer, photographer and sculptor based in Boston.

PB 9780986385933 £18.99 November 2019 Fort Point Press 376 pages



### **In Search of Ultimate Reality Inside the Cosmologist's Abyss**

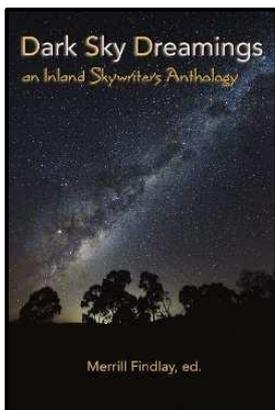
H. Chris Ransford

Is there such a thing as a fundamental reality, something which was around before our universe came into existence and which will still remain when all matter, time, and space itself ultimately disappear? Something fundamental which, in turn, can make space and time and matter arise from seemingly nothing? Under most cosmological and physical models, the last known remnants of reality are the disembodied laws of mathematics—beyond which it is extremely difficult to probe further.

Using contemporary physics, narrated at popular science level, Chris Ransford shows why full nothingness—a nothingness within which even the disembodied laws of mathematics would not exist—cannot possibly exist, and what most likely underpins and enables reality. This leads the author to a few thoughts as to how such knowledge may be verified and then deployed to achieve a better alignment with reality.

PB 9783838213293 £20.00 September 2019 Ibidem Press 158 pages

## Interactive Publications



### **Dark Sky Dreamings an Inland Skywriters Anthology**

Merrill Findlay

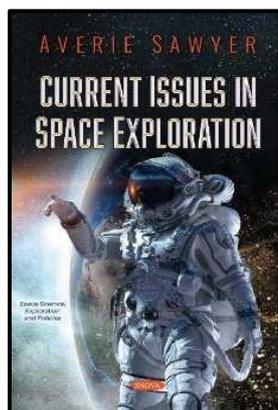
When you look up at a midnight sky, what do you see—mottled stars and a full Moon trying hard to compete with the street lamps for your attention? You might be situated in a city, or its sprawling suburbs, where the ever-present urban glow tends to keep your gaze horizontal, missing out on the beckoning mysteries of the Universe.

This Skywriters anthology will change all that. Through the eyes and creativity of people who write about south-eastern inland Australia, we'll redirect your vision upwards to a brighter Moon, the subtle presence of nearby planets, the cosmic spectacular of our Milky Way galaxy and those celestial bodies even further away.

You'll find inspiring stories, poems and essays by a great diversity of Australians responding to what some have called the 'Inland Astro-Trail', which connects rural and remote communities with world-class astronomical observatories such as those at Parkes, Siding Springs and Narrabri. Some skystories are "literary", others intensely personal, but all are guaranteed to widen your horizons—upwards!

**About the Author:** Merrill Findlay is a writer and cultural development practitioner who now lives in Forbes, NSW. Her published work includes a critically acclaimed novel, Republic of Women (UQP 1999), book chapters, blog posts, speeches, scholarly articles, conference papers, an opera libretto, and features for the mainstream press, such as The Age, Good Weekend, and the Canberra Times. Her most recent cultural interventions include The Skywriters Project and the Inland Astro-Trail.

PB 9781922332059 £25.99 November 2019 Interactive Publications 264 pages



## Current Issues in Space Exploration

Edited by Averie Sawyer

NASA is undertaking a trio of closely related programs to continue human space exploration beyond low-Earth orbit. All three programs (SLS, Orion, and supporting ground systems) are working toward a launch readiness date of June 2020 for the first mission as reported in chapters 1 and 2.

Chapter 3 reports on the development of a structural health monitoring (SHM) system for Space Launch System (SLS) vehicles based on acoustic emission (AE) or AE-like signals. Such a system will enhance SLS reliability by identifying the damage locations and type of damage when the damage is initiated. This SHM system would also lead to reduced maintenance costs by enabling ground support equipment to inspect only SLS elements or parts that are likely to be damaged.

Preserving key U.S. national security and economic interests depends on the continued and widespread use of space-based systems.

Satellites are as essential to military and intelligence operations as fighters, warships, and combat vehicles. Major portions of the global economy now rely on space systems; they facilitate modern banking, communications, agriculture, transportation, as well as a host of other commercial and civil activities as discussed in chapter 4.

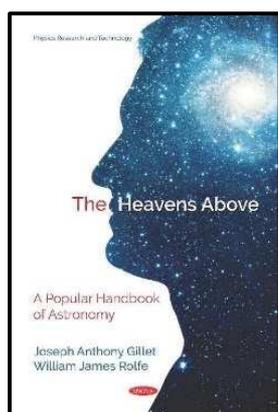
Chapter 5 provides background on the International Space Station (ISS), its governing international agreements, its planned service life, the ongoing commercialization of U.S. ISS access, and current commercial use of the ISS.

Chapter 6 provides information on the James Webb Space Telescope, the cost cap, and the independent review.

Congress may choose to approve, reject, or modify the FY2020 President's budget request for National Security Space (NSS), which includes \$14.1 billion for space launches, satellites, and other activities as reviewed in chapter 7.

Congress has encouraged the growth of commercial space activities by requiring federal agencies to use private launch services and establishing offices to oversee commercial activity. As discussed in chapter 8 expanded commercial space activity has brought increasing attention to the use of U.S. airspace.

HB 9781536177619 £203.99 April 2020 Nova Science Publishers 307 pages



## The Heavens Above

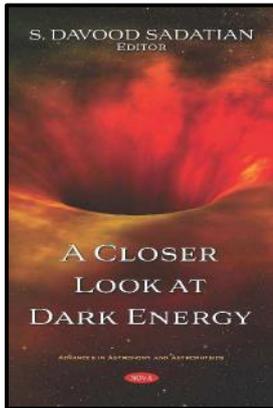
### A Popular Handbook of Astronomy

Joseph A. Gillet, William J. Rolfe

It has been the aim of the authors to give in this book a brief, simple, and accurate account of the heavens as they are known to astronomers of the present day. It is believed that there is nothing in the book beyond the comprehension of readers of ordinary intelligence, and that it contains all the information on the subject of astronomy that is needful to a person of ordinary culture.

The authors have carefully avoided dry and abstruse mathematical calculations, yet they have sought to make clear the methods by which astronomers have gained their knowledge of the heavens. The various kinds of telescopes and spectroscopes have been described, and their use in the study of the heavens has been fully explained.

HB 9781536154917 £203.99 May 2019 Nova Science Publishers 377 pages



## **A Closer Look at Dark Energy**

Edited by Davood Sadatian

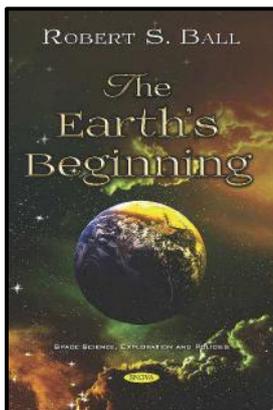
The universe is in a period of accelerated expansion; and the observational evidence such as supernova of Ia type, Cosmic Microwave Background radiation (CMB) and Baryon Acoustic Oscillations (BAO) confirm this accelerating expansion [1-3]. Despite the great number of observational evidence, the responsible mechanism for this accelerating expansion is still unknown, and thus several models have been proposed for this phenomenon[4-18].

The simplest proposed model in the general relativity is a cosmic model with a dominant component that is considered as a fluid with negative pressure and constant density[8] (means Dark Energy component) . In this book, we consider effects of Dark Energy content on the universe.

Accordingly, structure of discussions in the present book was on four chapters as follows: chapter 1 : Dark Energy, Motivation and Candidates, chapter 2 : The Equivalence Principle Applicability Boundaries, Measurability, Gravity and Dark Energy Problem, chapter 3 : The Behaviors of a Candidate for Dark Energy from ur-Higgs Boson , and chapter 4 : Non-equilibrium Evolution of Quantum Fields During Inflation and Late Accelerating Expansion .

However, I hope this collection of context will be useful for readers to understand more accurately the dark energy idea.

HB 9781536163483 £141.99 October 2019 Nova Science Publishers 214 pages

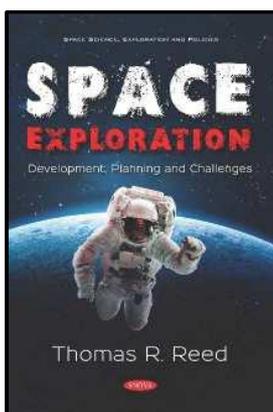


## **The Earth's Beginning**

Edited by Robert S. Ball

The Earth's Beginning are lectures which were delivered in the Royal Institution of Great Britain. It considers the majestic subject of the evolution of the solar system of which our earth forms a part. The nebular theory discloses the beginning of this earth itself. It shows how the foundations of this solid earth have been laid, and how it is that we have land to tread on and air to breathe. But the subject has a scope far wider than merely in its relation to our earth.

HB 9781536157437 £203.99 July 2019 Nova Science Publishers 357 pages



## **Space Exploration**

### **Development, Planning and Challenges**

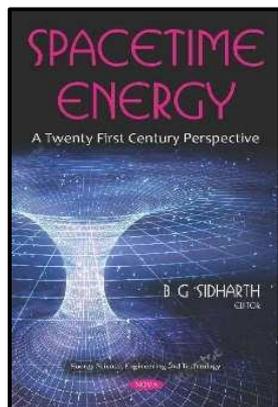
Edited by Thomas R. Reed

Human spaceflight at NASA began in the 1960s with the Mercury and Gemini programs leading up to the Apollo moon landings. After the last lunar landing, Apollo 17, in 1972, NASA shifted its attention to low earth orbit operations with human spaceflight efforts that included the Space Shuttle and International Space Station programs through the remainder of the 20th century.

Exploration of our solar system has brought great knowledge to our Nation's scientific and engineering community over the past several decades. As we expand our visions to explore new, more challenging destinations, we must also expand our technology base to support these new missions.

NASA's Space Technology Mission Directorate is tasked with developing these technologies for future mission infusion and continues to seek answers to many existing technology gaps.

PB 9781536150322 £84.99 February 2019 Nova Science Publishers 172 pages



## Spacetime Energy A Twenty First Century Perspective

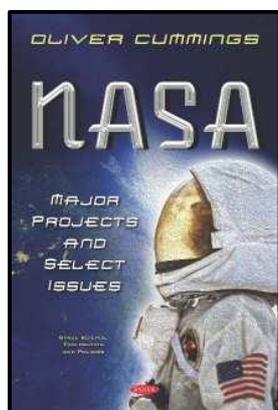
B. G. Sidharth

The anthology titled “*Spacetime Energy: A Twenty First Century Perspective*” encompasses novel and avant garde ideas that delineate the intrinsic nature of spacetime and several of its aspects. The collection of papers epitomizes the fundamental aspects of the physical world. For instance, the authors have considered the affine connection between gravitation and electromagnetism. The noncommutative nature of spacetime has also been elaborated in connection with gravitation and electromagnetism and also in terms of monopoles. On the other hand, the rudimentary nature of the zero point field or the field of the vacuum has also been considered to describe the 2-state asymmetries that are found in nature. Several interesting models have been considered to get a novel perspective on the nature of the universe we live in; the importance of dark energy has been implied therein.

The authors have also considered the phenomenon of photoelectric effect in case of grapheme and other similar crystals. A new formula has also been found for the conductance in case of carbon nano tubes. Ultra-high energy fermionic behavior has been elaborately discussed from a novel perspective and the anomalous gyromagnetic ratio of the electron has also been elucidated on the pedestal of the noncommutative nature of spacetime. Resorting to an altogether different approach, the nature of symmetry breaking and the details related to the relevant Lie algebras has also been discussed.

Essentially, the collection of works provides a broad range of conceptual understanding of the universe, both in the macroscopic and the microscopic scale. Nevertheless, the reader should find the works to broaden their view of the physical world that exists around us.

HB 9781536155853 £141.99 August 2019 Nova Science Publishers 266 pages



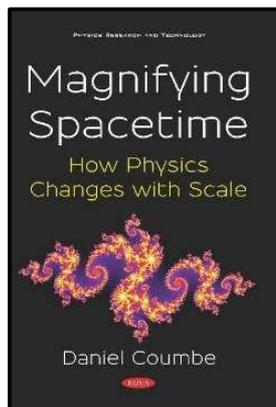
## NASA Major Projects and Select Issues

Edited by Oliver Cummings

NASA’s mission is to drive advances in science, technology, aeronautics, and space exploration to enhance knowledge, education, innovation, economic vitality, and stewardship of Earth. Chapter 1 and 2 provide a snapshot for 2018 of how well NASA is planning and executing its major acquisition projects. In May 2017, GAO found that projects were continuing a generally positive trend of limiting cost and schedule growth, maturing technologies, and stabilizing designs. But, at the same time, GAO noted that many of these projects, including some of the most expensive ones, were approaching the phase in their life cycles when cost and schedule growth is most likely. Chapter 3 is an overview of the 2017 budget.

Chapter 4 determines the extent to which NASA has established and implemented leading IT management practices in strategic planning, workforce planning, governance, and cybersecurity. Chapter 5 addresses, among other things, the extent to which (1) NASA’s Inspector General investigated contractor and grantee whistleblower reprisal complaints; (2) NASA’s Administrator reviewed reprisal complaints in a timely manner; and (3) NASA communicated the applicable whistleblower reprisal protections to contractors. Chapter 6 sets forth policy governing the release of public information, which is defined as information in any form provided to news and information media, especially information that has the potential to generate significant media, or public interest or inquiry.

HB 9781536148176 £203.99 January 2019 Nova Science Publishers 264 pages



## Magnifying Spacetime How Physics Changes with Scale

Daniel Nathan Coumbe

Fundamental physics has now been stuck for almost a century. Ever since the discovery of general relativity and quantum mechanics in the early 1900s, the brightest minds in physics have been striving to combine these two paradigms into a single unified theory of quantum gravity, without success. The general consensus is that we are missing a big piece of the puzzle.

Now, there are exciting new hints coming from fundamental physics research that may finally unlock the enigma of quantum gravity, the holy grail of modern physics. Recent results point toward one central idea; the importance of scale transformations in physics. *Magnifying Spacetime* delivers new insights into the role of scale in quantum gravity from the cutting-edge of modern research using an accessible and pedagogical style. The ideal complementary text for undergraduate and graduate students, this book also serves as an essential resource for professional physicists working on related topics. However, the scientifically literate layman should also find this work accessible due to the emphasis on conceptual understanding.

Daniel Coumbe takes readers on a journey from the basics of scale transformations to the frontiers of quantum gravity research, including fractal geometry, minimum length scenarios, the renormalization group, Weinberg's asymptotic safety scenario, causal dynamical triangulations, spontaneous dimensional reduction, and Weyl's modification of Einstein's general relativity.

Isaac Asimov said, "The most exciting phrase to hear in science, the one that heralds new discoveries, is not, Eureka! I've found it, but, that's odd!" The recent discovery that the world may be two-dimensional at extremely small distances, which is one of many striking results covered in this book, certainly counts as odd. There is now a small window of opportunity in which to get ahead of the curve by understanding such phenomena and developing new theoretical models and predictions, before the coming surge of experimental results.

PB 9781536153194 £72.99 July 2019 Nova Science Publishers 184 pages

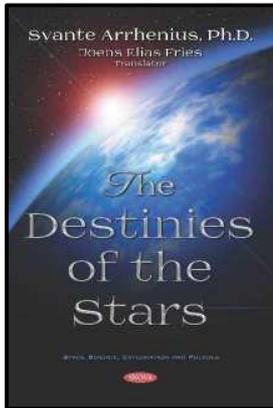


## Commercial Crew Program, Space Telescopes and the Global Positioning System Telescopes and the Global Positioning System

Edited by Graeme N. Lutz

NASA's *Commercial Crew Program* is a multi-phased effort that began in 2010. Across the phases, NASA has engaged several companies, using both agreements and contract vehicles to develop and demonstrate crew transportation capabilities. As the program has passed through these phases, NASA has generally narrowed down the number of participants. NASA's mission is to drive advances in science, technology, aeronautics, and space exploration, and contribute to education, innovation, our country's economic vitality, and the stewardship of the Earth. To accomplish this mission, NASA establishes programs and projects that rely on complex instruments and spacecraft. NASA's portfolio of major projects ranges from space satellites equipped with advanced sensors to study the Earth to a telescope intended to explore the universe to spacecraft to transport humans and cargo to and beyond low-Earth orbit.

PB 9781536149807 £141.99 February 2019 Nova Science Publishers 218 pages



## The Destinies of the Stars

Svante Arrhenius, Joens Elias Fries

In *The Destinies of the Stars* the evolution of the stars and planets are traced through the spiral nebula, the gaseous stars, the sun, the worlds to be, Jupiter and Saturn, the world, to the final destiny of all, the dead planets, Mercury and Mars.

PB 9781536149562 £72.99 February 2019 Nova Science Publishers 167 pages

## Republic Book Publishers



## Winning Space

### How America Remains a Superpower

Brandon J. Weichert

When President Donald J. Trump announced the creation of America's sixth branch of the military, the United States Space Force, many in Washington scoffed. But, U.S. rivals in China, Russia, Iran, and North Korea took notice. Since the end of the Cold War, these American foes have chafed under the full-spectrum dominance that the American superpower has enjoyed globally. They have identified space as a key strategic domain where they can challenge—and possibly defeat—the United States military. And, depriving the U.S. military and/or its economy of access to space during an international crisis could spell doom for the United States in other strategic domains (land, sea, air, and cyberspace). After all, space is critical for America's vaunted information dominance. Satellites overhead are the backbone of America's global military. Remove them from orbit and U.S. forces worldwide are rendered deaf, dumb, and blind. What's more, space is a more than \$1 trillion economy just waiting to be developed. Whichever country gets there first will have considerable economic and geopolitical power on Earth. Despite President Trump's creation of the Space Force, Swamp Dwellers in Washington continue resisting his reforms to U.S. space and technology policy. *Winning Space* tracks the increasing competition the United States is facing in the technology sector and depicts how the United States has been engaged in a Second Space Race—and how it has been losing. Author Brandon Weichert warns how the United States is at risk for a Pearl Harbor-type event in space. Weichert advocates for the full embrace of Trump's reforms for America's flailing space policy, while also calling for a minimum \$1 trillion investment in advanced research and development here in the United States, to stay ahead of America's advancing foes. Contrary to what many Americans may think, the United States has been declining in space and the high-technology development sector. Should it lose its dominance in these areas, it will surely lose its superpower status. The next decade presents U.S. policymakers one last chance to preserve the superpower status that America fought two world wars and the Cold War to build. Time is not on our side. We are on notice, but we have not noticed.

HB 9781645720119 £27.99 September 2020 Republic Book Publishers 375 pages



## The Soviet Space Program The N1, the Soviet Moon Rocket

Eugen Reichl

The N1 was the booster rocket for the Soviet manned moon program and was thus the direct counterpart of the Saturn V, the rocket that took American astronauts to the moon in 1969. Standing 345 feet tall, the N1 was the largest rocket ever built by the Soviets and was roughly the same height and weight as the Saturn. Though initially ahead of the US in the space race, the Soviets lagged behind as the pace for being first on the moon accelerated. Massive technical and personnel difficulties, plus spectacular failures, repeatedly delayed the N1 program. After the successful American landings on the moon, it was finally canceled without the N1 ever achieving orbit. The complete history of this rarely known Soviet program is presented here, starting in 1959, along with detailed technical descriptions of the N1's design and development. A full discussion of its attempted launches, disasters, and ultimate cancellation in 1974 completes this definitive history.

HB 9780764358555 £18.99 November 2019 Schiffer Publishing Ltd 144 pages

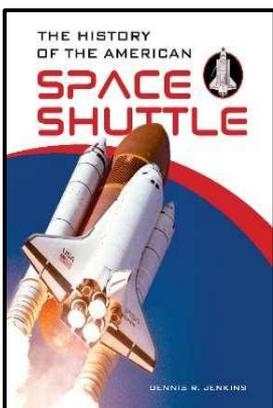


## The Soviet Space Program The Lunar Mission Years: 1959-1976

Eugen Reichl

With the launch of the Sputnik 1 satellite on October 4, 1957, the Soviet Union started the space race; the race for the moon soon followed. Here too the USSR was ahead of the game: the first flyby of the moon, the first lunar-impact probe, the first pictures of the far side, and the first soft landing. Defending the lead, and thus demonstrating the superiority of communism, was an ideological must for Soviet leadership. The United States soon caught up and surpassed the Soviet moon program. This book chronologically examines the fifty-nine missions the USSR sent or intended to send to the moon from 1959 to 1976. Eventually, the Soviets finally abandoned the idea of a manned moon landing and for the following decade and a half claimed that they never conducted such a program. Unmanned Soviet lunar flights continued until 1976, by which time they had used up all of the space probes built in the years previous.

HB 9780764356759 £18.99 March 2019 Schiffer Publishing Ltd 160 pages



## The History of the American Space Shuttle

Dennis R. Jenkins

The flight campaign for the American space shuttle began on April 12, 1981, with the launch of STS-1 from the Kennedy Space Center, Florida, and ended on July 21, 2011, with wheels stop of STS-135. During the 30 years and 135 missions in between, the program experienced triumphs and tragedies, amazed the world with its orbital exploits, and was frequently the subject of admiration, condemnation, pride, and despair. This book provides a detailed overview of the history of winged spacecraft and the development of the vehicle we call the "space shuttle," and provides a technical description of the orbiter, main engines, external tank, and solid rocket boosters. Two pages are dedicated to each of the 135 missions flown by the American space shuttle, including technical data, crew names, and photos of each mission.

The *Challenger* and *Columbia* accidents are discussed, along with a discussion of what NASA did to fix the flaws and continue flying. The book concludes by covering the retirement of the vehicle and the delivery of the four remaining orbiters to their final display sites.

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