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Kennedy Space Center

Through the Glass Ceiling to the Stars

The Nuts and Bolts of the Apollo Moon Program at Kennedy Space Center

Thirteen

Chariots for Apollo

Spacecraft

A Technological History of the Apollo/Saturn Launch Vehicle

Out of My Mind

The People, Technology, and Daring Feats of Science Behind Humanity's Greatest Adventure

Apollo

Fetishes Are Fun

Countdown to a Moon Launch

Exploring the Moon

The Occult World of Jack Parsons

The Remarkable and Improbable Voyage of Apollo 11

Rocket Men

The Daring Odyssey of Apollo 8 and the Astronauts Who Made Man's First Journey to the Moon

*Rocket Ranch The Nuts  
And Bolts Of The Apollo  
Moon Program At  
Kennedy Space Center  
Springer Praxis Books*

OMB No.  
6192546040887 edited  
by

**FREDERICK MCKENZIE**

**KENNEDY SPACE CENTER**

DIANE Publishing

This book provides an overview of the origins of the Apollo program and descriptions of the ground facilities, launch vehicles and spacecraft that were developed in the quest to reach - and return from - the surface of the moon. It will serve as an invaluable single-volume sourcebook for space enthusiasts, space historians, journalists, and others. The text includes a comprehensive collection of tables listing facts and figures for each mission.

*Through the Glass Ceiling to the Stars*

AIAA

On her vacation at Shadow Ranch, young detective Nancy Drew encounters a mystery involving a phantom horse, a

haunted ghost-town and a perilous gang of cowboy thieves

The Nuts and Bolts of the Apollo Moon Program at Kennedy Space Center

Springer

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**Thirteen** Springer Science & Business Media

"In Mission Control, Michael Johnson explores the famous Johnson Space Center in Houston, the Jet Propulsion Laboratory in Pasadena, and the European Space Operations Centre in Darmstadt, Germany--each a strategically designed micro-environment responsible for the operation of spacecraft and the safety of passengers. He explains the motivations behind the location of each center and their intricate design. He shows how the robotic spaceflight missions overseen in Pasadena and Darmstadt set these centers apart from Houston, and compares the tracking networks used for different types of spacecraft,"--Amazon.com.

*Chariots for Apollo* Springer

The technological marvel that facilitated the Apollo missions to the Moon was the on-board computer. In the 1960s most computers filled an entire room, but the spacecraft's computer was required to be compact and low power. Although people today find it difficult to accept that it was possible to control a spacecraft using such a 'primitive' computer, it nevertheless had capabilities that are advanced even by today's standards. This is the first book to fully describe the Apollo guidance computer's architecture, instruction format and programs used by the astronauts. As a comprehensive account, it will span the disciplines of computer science, electrical and aerospace engineering. However, it will also be accessible to the 'space enthusiast'. In short, the intention is for this to be the definitive account of the Apollo guidance computer. Frank O'Brien's interest in the Apollo program began as a serious amateur historian. About 12 years ago, he began performing research and writing

essays for the Apollo Lunar Surface Journal, and the Apollo Flight Journal. Much of this work centered on his primary interests, the Apollo Guidance Computer (AGC) and the Lunar Module. These Journals are generally considered the canonical online reference on the flights to the Moon. He was then asked to assist the curatorial staff in the creation of the Cradle of Aviation Museum, on Long Island, New York, where he helped prepare the Lunar Module simulator, a LM procedure trainer and an Apollo space suit for display. He regularly lectures on the Apollo computer and related topics to diverse groups, from NASA's computer engineering conferences, the IEEE/ACM, computer festivals and university student groups.

### SPACECRAFT

Courier Corporation

Written and illustrated by Chris Gall, *Go for the Moon!* captures the fascinating detail and inspiring adventure of the moon landing. It is a captivating celebration of one of humankind's greatest technical achievements and most extraordinary feats of exploration. The Apollo 11 astronauts have prepared carefully for their attempt to be the first men to land on the moon. The young narrator of this book has prepared carefully, too: he explains the design of the spacecraft, the flight from the earth to the moon, and the drama of touching down--while shadowing the astronaut's voyage with one of his own.

### A Technological History of the Apollo/Saturn Launch Vehicle

Open Road Media

Written by a trio of experts, this is the definitive reference on the Apollo spacecraft and lunar modules. It traces the design of the vehicles, their development, and their operation in space. More than 100 photographs and illustrations highlight the text, which begins with NASA's origins and concludes with the triumphant Apollo 11 moon mission.

### OUT OF MY MIND

John Wiley & Sons

Jonathan Ward takes the reader deep into the facilities at Kennedy Space Center to describe NASA's first computer systems used for spacecraft and rocket checkout and explain how tests and launches proceeded. Descriptions of early operations include a harrowing account of the heroic efforts of pad workers during the Apollo 1 fire. A companion to the author's book *Countdown to a Moon Launch: Preparing Apollo for Its Historic Journey*, this explores every facet of the

facilities that served as the base for the Apollo/Saturn missions. Hundreds of illustrations complement the firsthand accounts of more than 70 Apollo program managers and engineers. The era of the Apollo/Saturn missions was perhaps the most exciting period in American space exploration history. Cape Canaveral and Kennedy Space Center were buzzing with activity. Thousands of workers came to town to build the facilities and launch the missions needed to put an American on the Moon before the end of the decade. Work at KSC involved much more than just launching rockets. It was a place like none other on Earth. Technicians performed intricate operations, and hazards abounded everywhere, including lightning, fire, highly-toxic fuels, snakes, heat, explosives, LOX spills, and even plutonium. The reward for months of 7-day workweeks under intense pressure was witnessing a Saturn V at liftoff. For anyone who ever wished they had worked at Kennedy Space Center during the Apollo era, this book is the next best thing. The only thing missing is the smell of rocket fuel in the morning.

### THE PEOPLE, TECHNOLOGY, AND DARING FEATS OF SCIENCE BEHIND HUMANITY'S GREATEST ADVENTURE

DIANE Publishing

NEW YORK TIMES BESTSELLER • The riveting inside story of three heroic astronauts who took on the challenge of mankind's historic first mission to the Moon, from the bestselling author of *Shadow Divers*. "Robert Kurson tells the tale of Apollo 8 with novelistic detail and immediacy."—Andy Weir, #1 New York Times bestselling author of *The Martian* and *Artemis* By August 1968, the American space program was in danger of failing in its two most important objectives: to land a man on the Moon by President Kennedy's end-of-decade deadline, and to triumph over the Soviets in space. With its back against the wall, NASA made an almost unimaginable leap: It would scrap its usual methodical approach and risk everything on a sudden launch, sending the first men in history to the Moon—in just four months. And it would all happen at Christmas. In a year of historic violence and discord—the Tet Offensive, the assassinations of Martin Luther King, Jr., and Robert Kennedy, the riots at the Democratic National Convention in Chicago—the Apollo 8 mission would be the boldest, riskiest test of America's greatness under pressure. In this gripping insider account, Robert Kurson puts the focus on the three astronauts and their families: the

commander, Frank Borman, a conflicted man on his final mission; idealistic Jim Lovell, who'd dreamed since boyhood of riding a rocket to the Moon; and Bill Anders, a young nuclear engineer and hotshot fighter pilot making his first space flight. Drawn from hundreds of hours of one-on-one interviews with the astronauts, their loved ones, NASA personnel, and myriad experts, and filled with vivid and unforgettable detail, *Rocket Men* is the definitive account of one of America's finest hours. In this real-life thriller, Kurson reveals the epic dangers involved, and the singular bravery it took, for mankind to leave Earth for the first time—and arrive at a new world. "Rocket Men is a riveting introduction to the [Apollo 8] flight. . . . Kurson details the mission in crisp, suspenseful scenes. . . . [A] gripping book."—The New York Times Book Review

### APOLLO

Random House

In 1961, Pres. John F. Kennedy set the challenge of landing a man on the moon by the end of the decade. In order to achieve this, NASA partnered with US industry to build the largest rocket ever produced, the Saturn V. It was designed and tested in record time and made its first flight in 1967. Less than two years later and within the timescales set by the president, the crew of Apollo 11 was launched on a Saturn V and watched live by millions of people on televisions around the world. From this launch, Neil Armstrong made his famous giant leap for mankind, later to be followed by 11 other astronauts who also walked on the moon. *Fetishes Are Fun* Simon and Schuster This is a book about rocket science: what it is and what it does. From the earliest fireworks to nuclear-powered spacecraft, all you would ever want or need to know about the subject is here, along with a straightforward explanation of how, why and when things work—or sometimes don't. We begin with the history and workings of early terrestrial rocketry before moving onto the main subject of the book: how we get things into space and, on occasion, back again. Entirely math-free, the chapters weave together innumerable anecdotes, real-world examples, and easy walk-throughs to help readers break down the complex physics behind some of humankind's most amazing feats. Neither a pure textbook nor a populist space travel tome, the book will educate, inform and above all entertain anyone intrigued by rocket science.

## COUNTDOWN TO A MOON LAUNCH

Pi Kids

Provides detailed information on the earliest developments of rockets, the Apollo program, the Space Station, and the future of space exploration, offering a look at the departure gate for every space mission and the launching point of other advanced scientific spacecraft.

**Exploring the Moon** CRC Press

This is a print on demand edition of a hard to find publication. Explores whether sufficient data exists to examine the temporal and spatial relationships that existed in terrorist group planning, and if so, could patterns of preparatory conduct be identified? About one-half of the terrorists resided, planned, and prepared for terrorism relatively close to their eventual target. The terrorist groups existed for 1,205 days from the first planning meeting to the date of the actual/planned terrorist incident. The planning process for specific acts began 2-3 months prior to the terrorist incident. This study examined selected terrorist groups/incidents in the U.S. from 1980-2002. It provides for the potential to identify patterns of conduct that might lead to intervention prior to the commission of the actual terrorist incidents. Illustrations.

**The Occult World of Jack Parsons**

Arcadia Publishing

The history of NASA's Apollo program from Earth orbital missions to lunar landings in a propulsive nonfiction narrative. Only now, it is becoming clear how exceptional and unrepeatable Apollo was. At its height, it employed almost half a million people, many working seven days a week and each determined that "it will not fail because of me." Beginning with fighter pilots in World War II, Maurer traces the origins of the Apollo program to a few exceptional soldiers, a Nazi engineer, and a young eager man who would become president. Packed with adventure, new stories about familiar people, and undeniable danger, *Destination Moon* takes an unflinching look at a tumultuous time in American history, told expertly by nonfiction author Richard Maurer.

**The Remarkable and Improbable**

**Voyage of Apollo 11** Rocket Ranch  
The Nuts and Bolts of the Apollo Moon Program at Kennedy Space Center

The #1 New York Times bestselling memoir of U.S. Navy Seal Chris Kyle, and the source for Clint Eastwood's blockbuster, Academy-Award nominated movie. "An amazingly detailed account of fighting in Iraq--a humanizing, brave story that's extremely readable." — PATRICIA

CORNWELL, New York Times Book Review  
"Jaw-dropping...Undeniably riveting."

—RICHARD ROEPER, Chicago Sun-Times  
From 1999 to 2009, U.S. Navy SEAL Chris Kyle recorded the most career sniper kills in United States military history. His fellow American warriors, whom he protected with deadly precision from rooftops and stealth positions during the Iraq War, called him "The Legend"; meanwhile, the enemy feared him so much they named him al-Shaitan ("the devil") and placed a bounty on his head. Kyle, who was tragically killed in 2013, writes honestly about the pain of war—including the deaths of two close SEAL teammates—and in moving first-person passages throughout, his wife, Taya, speaks openly about the strains of war on their family, as well as on Chris. Gripping and unforgettable, Kyle's masterful account of his extraordinary battlefield experiences ranks as one of the great war memoirs of all time.

**Rocket Men** Arcadia Publishing

Voted the Best Space Book of 2018 by the Space Hipsters The dramatic inside story of the epic search and recovery operation after the Columbia space shuttle disaster. On February 1, 2003, Columbia disintegrated on reentry before the nation's eyes, and all seven astronauts aboard were lost. Author Mike Leinbach, Launch Director of the space shuttle program at NASA's John F. Kennedy Space Center was a key leader in the search and recovery effort as NASA, FEMA, the FBI, the US Forest Service, and dozens more federal, state, and local agencies combed an area of rural east Texas the size of Rhode Island for every piece of the shuttle and her crew they could find. Assisted by hundreds of volunteers, it would become the largest ground search operation in US history. This comprehensive account is told in four parts: Parallel Confusion Courage, Compassion, and Commitment Picking Up the Pieces A Bittersweet Victory For the first time, here is the definitive inside story of the Columbia disaster and recovery and the inspiring message it ultimately holds. In the aftermath of tragedy, people and communities came together to help bring home the remains of the crew and nearly 40 percent of shuttle, an effort that was instrumental in piecing together what happened so the shuttle program could return to flight and complete the International Space Station. Bringing Columbia Home shares the deeply personal stories that emerged as NASA employees looked for lost colleagues and searchers overcame immense physical, logistical, and emotional challenges and worked together to

accomplish the impossible. Featuring a foreword and epilogue by astronauts Robert Crippen and Eileen Collins, and dedicated to the astronauts and recovery search persons who lost their lives, this is an incredible, compelling narrative about the best of humanity in the darkest of times and about how a failure at the pinnacle of human achievement became a story of cooperation and hope.

Springer Science & Business Media

An "exciting" minute-by-minute account of the Apollo 13 flight based on mission control transcripts from Houston (The New York Times). On the evening of April 13, 1970, the three astronauts aboard Apollo 13 were just hours from the third lunar landing in history. But as they soared through space, two hundred thousand miles from Earth, an explosion badly damaged their spacecraft. With compromised engines and failing life-support systems, the crew was in incomparably grave danger. Faced with below-freezing temperatures, a seriously ill crewmember, and a dwindling water supply, a safe return seemed unlikely. Thirteen is the shocking and miraculous true story of how the astronauts and ground crew guided Apollo 13 back to Earth. Expanding on dispatches written for the New Yorker, Henry S. F. Cooper Jr. brings readers unparalleled detail on the moment-by-moment developments of one of NASA's most dramatic missions.

**The Daring Odyssey of Apollo 8 and the Astronauts Who Made Man's First Journey to the Moon** Feral House

This amazingly unique book contains 2 books in 1! Read from one side to enjoy Rocket and the Rover, an adorable story featuring a young rocket, Phoenix, as he makes a new friend in Pyxi the Rover. Flip the book and read from the second side, All About Rockets: 3-2-1 Blast Off! Fun Facts About Space Vehicles. In this non-fiction book your little one will learn a bunch about these modern marvels of engineering.

**THE STORY OF THE FIRST AMERICAN WOMAN TO COMMAND A SPACE MISSION**

Houghton Mifflin Harcourt

Nothing is more perplexing to the clinician new to device therapy than having to deal with cardiac electrocardiograms from a device patient. Pacemakers and other implantable cardiac rhythm management devices leave their "imprint" on ECGs and can significantly change what clinicians see - or expect to see. Evaluating paced ECGs can be challenging, yet nowhere is it taught in any sort of comprehensive manner. Designed specifically for

clinicians new to device therapy, *The Nuts and Bolts of Interpreting Paced ECGs and EGMs* offers practical, reliable and objective information on paced cardiac electrograms. Written in a lively, intelligent and easy to navigate style, emphasizing real-life clinical practice and

practical tips, this book includes illustrated paced ECGs by skilled artists to help minimize “fuzzy” lines and emphasize key points. Each chapter concludes with a checklist of key points from each subject (“Nuts and Bolts”).

#### **THE DARK SIDE OF THE ALL-**

#### **AMERICAN MEAL**

Voyageur Press

Considered by many to be mentally retarded, a brilliant, impatient fifth-grader with cerebral palsy discovers a technological device that will allow her to speak for the first time.

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