

# Rocketry&sorty

**JA Banks**

**History of Rocketry & Space Travel** Wernher Von Braun, Frederick Ira Ordway, Frederick Ira Ordway (III), 1975 It reviews the work of three great pioneers of the early part of the twentieth century - America's Goddard, Germany's Oberth, and Russia's Tsiolkovsky - as well as the accomplishments of Esnault-Pelterie in France, Isaac Lubbock's work on liquid propellants in Great Britain, and the development of the Russian Katyusha. It details the experiments of von Braun and Walter R Dornberger in Germany before World War II, and gives a full account of the work of their development team on the V-2 rocket at the Peenemunde Center. The dramatic story of the German scientists' surrender to American forces in 1945, as well as their eventual accomplishments at the Army's Redstone Arsenal and subsequently NASA's Marshall Space Flight Center in Huntsville, Alabama, is also told at first hand.

**When Sparks Fly** Kristen Fulton, 2018-07-03 Blast off with this bright, energetic nonfiction picture book from Kristen Fulton and Diego Funck all about Robert Goddard, the inventor of US rocket science! Robert Goddard may be known as the father of US rocketry, but back in the 1880s, he was just a kid in Worcester, Massachusetts. Even as a youngster, his eyes glimmered with scientific interest and the thrill of discovery. With BAMS! POPS! BANGS! he experimented time and time again with one mission: make his rockets fly! Join Kristen Fulton and Diego Funck as they take you on one explosive journey about a young kid who shot for the moon, never gave up, and let his creative sparks of curiosity burn bright.

**Launch Magazine's History of American Rocketry** Mark Mayfield, 2021-09-21 A must-have for anyone fascinated by space travel, rocketry, NASA, SpaceX, and more! A new era in spaceflight, led by SpaceX and other commercial rocket companies, is generating the kind of worldwide interest in space travel that we haven't seen since the space race of the 1960s. Kids are dreaming of becoming astronauts again. New feats, such as SpaceX's remarkable ability to land booster rockets, under powered descent, back on land or sea has galvanized a new generation of rocket enthusiasts. Yet none of this would be possible without the advances of rocketry over the past century. The Chinese were the first to develop black-powder fireworks and rockets centuries ago, but modern rocketry truly began with Robert Goddard's launch of a liquid-fueled rocket on a Massachusetts farm in 1926. That metal contraption—which flew just 41 feet high before arching over and streaking 184 feet into a cabbage patch—came just 43 years before Neil Armstrong stepped foot on the moon on July 20, 1969. Armstrong's Apollo 11 mission was made possible by a giant 36-story-tall Saturn V rocket that used some of the same propulsion principles as Goddard's first tiny, crude rockets. The beginning of the "Space Age" is considered to be Russia's launch of the world's first satellite, Sputnik, in 1957. But it was the pioneering human spaceflights of the 1960s that captured the imagination of the world and turned astronauts into heroes. Weapons of war—the Redstone, Atlas, and Titan II missiles—were converted into civilian launch boosters and led to the success of the Mercury and Gemini programs. All the while, Saturn rockets were being developed that would ultimately lead to the moon missions. Kids were so excited about these pioneering space flights that an entirely new hobby—model rocketry—was created to serve their interests. Small scale models of NASA's big rockets were ordered by the millions, generating a \$100 million hobby at a time when there were no video games, no internet, and no cable, just three broadcast television networks. Now, the next generation of rockets from SpaceX and other commercial companies, along with NASA's new launch vehicles and Orion spacecraft, will lead the United States and the world into a new era of rocketry—beginning with crewed flights to the moon as early as 2024, and ultimately to Mars within the first half of this century.

**Blazing the Trail** Mike Gruntman, 2004 Winner of the Luigi Napolitano Award (2006) from the International Academy of

**Astronautics** This book presents the fascinating story of the events that paved the way to space. It introduces the reader to the history of early rocketry and the subsequent developments that led into the space age. People of various nations and from various lands contributed to the breakthrough to space, and the book takes the reader to faraway places on five continents. It also includes many quotes to give readers a flavor of how the participants viewed the developments. Most publications on the topic either target narrow aspects of rocket history or are popular books that scratch the surface, with minimal and sometimes inaccurate technical details. This book bridges the gap. It contains numerous technical details usually unavailable in popular publications. The details are not overbearing and anyone interested in rocketry and space exploration will navigate through the book without difficulty. There are 340 figures and photographs, many appearing for the first time.

*Large and Dangerous Rocket Ships* Mark Canepa, 2019-09-17 There's no available information at this time. Author will provide once information is available.

**Rockets and Missiles** A. Bowdoin Van Riper, 2007-11-26 Beginning with World War II, missiles transformed the art of war. For the first time, cities of warring nations were vulnerable to sudden, unannounced, long-distance attacks. At the same time, rockets made possible one of the great triumphs of the modern age—the exploration of space. Beginning with the origins of rocketry in medieval and early modern Asia, *Rockets and Missiles* traces the history of the technology that led to both the great fear of global warfare and the great excitement of the Space Age. This volume focuses on rocketry in late-twentieth-century Western Europe, Russia, and the United States, as well as the spread of rocket technology to East Asia and the Middle East. It covers the full history of rocket technology—including how rockets improved in performance, reliability, and versatility and how they affected everyday life.

*This Is Rocket Science* Gloria Skurzynski, 2010 Explores the past, present, and future of space travel. The compelling text - vetted by NASA scientists - is a combination of history, science, human drama, and future challenges. Readers learn how fireworks in ancient China developed into the fire arrows used by Genghis Khan; we meet Sir Isaac Newton, Jules Verne, H.G. Wells, and learn how their imaginations shaped rocketry. We revisit the era of Sputnik, the satellite that launched a superpower space race, ending with moonwalks and a rendezvous in space. Finally we look forward to the future challenges of Mars and beyond.

**Starbound** Eileen Schussler, Raymond Schussler, 1960

**Brief History of Rocketry in Indian Space Research Organisation** P. Manoranjan Rao, Pi Rādhākṛṣṇan, 2012

**Rocket Girl** George D. Morgan, 2013 Combining personal history with dramatic historical events, this extraordinary true story of America's first female rocket scientist shows how her talent for chemistry proved essential for America's early space program.

Launch Magazine's History of Rockets and Model Rockets Mark Mayfield, 2009-10-28 In 1954, before the United States had even launched its first satellite into orbit, a Nebraska shoe salesman named Orville Carlisle developed a small black powder motor that could fire a toy rocket to 1,000 feet or more, blast out a parachute with a small ejection charge, and allow the model to float harmlessly to the ground. America was hooked and hobby rocketry was born. Complete with explanations of the events and scientific developments that led to the proliferation of hobby rocketry, *Launch Magazine's History of Rockets Model Rockets* is a full-color pictorial history of aerospace endeavors around the world.

**Single Stage to Orbit** Andrew J. Butrica, 2004-12-01 Winner of the Michael C. Robinson Prize for Historical Analysis given by the National Council on Public History While the glories and tragedies of the space shuttle make headlines and move the nation, the story of

the shuttle forms an inseparable part of a lesser-known but no less important drama—the search for a reusable single-stage-to-orbit rocket. Here an award-winning student of space science, Andrew J. Butrica, examines the long and tangled history of this ambitious concept, from its first glimmerings in the 1920s, when technicians dismissed it as unfeasible, to its highly expensive heyday in the midst of the Cold War, when conservative-backed government programs struggled to produce an operational flight vehicle. Butrica finds a blending of far-sighted engineering and heavy-handed politics. To the first and oldest idea—that of the reusable rocket-powered single-stage-to-orbit vehicle—planners who belonged to what President Eisenhower referred to as the military-industrial complex added experimental (X), aircraft-like capabilities and, eventually, a faster, cheaper, smaller managerial approach. *Single Stage to Orbit* traces the interplay of technology, corporate interest, and politics, a combination that well served the conservative space agenda and ultimately triumphed—not in the realization of inexpensive, reliable space transport—but in a vision of space militarization and commercialization that would appear settled United States policy in the early twenty-first century.

Essays on the History of Rocketry and Astronautics, 1970

Rocket Men Craig Nelson, 2009-06-25 A New York Times Bestseller Celebrates a bold era when voyaging beyond the Earth was deemed crucial to national security and pride. -The Wall Street Journal Restoring the drama, majesty, and sheer improbability of an American triumph, this is award-winning historian Craig Nelson's definitive and thrilling story of man's first trip to the moon. At 9:32 a.m. on July 16, 1969, the Apollo 11 rocket launched in the presence of more than a million spectators who had gathered to witness a truly historic event. Through interviews, 23,000 pages of NASA oral histories, and declassified CIA documents on the space race, *Rocket Men* presents a vivid narrative of the moon mission, taking readers on the journey to one of the last frontiers of the human imagination.

*Large and Dangerous Rocket Ships* Mark Canepa, 2019-09-17 There's no available information at this time. Author will provide once information is available.

**Escape from Earth** Fraser MacDonald, 2019-06-25 The long-buried truth about the dawn of the Space Age: lies, spies, socialism, and sex magick Los Angeles, 1930s: Everyone knows that rockets are just toys, the stuff of cranks and pulp magazines. Nevertheless, an earnest engineering student named Frank Malina sets out to prove the doubters wrong. With the help of his friend Jack Parsons, a grandiose and occult-obsessed explosives enthusiast, Malina embarks on a journey that takes him from junk yards and desert lots to the heights of the military-industrial complex. Malina designs the first American rocket to reach space and establishes the Jet Propulsion Laboratory. But trouble soon finds him: the FBI suspects Malina of being a communist. And when some classified documents go missing, will his comrades prove as dependable as his engineering? Drawing on an astonishing array of untapped sources, including FBI documents and private archives, *Escape From Earth* tells the inspiring true story of Malina's achievements--and the political fear that's kept them hidden. At its heart, this is an Icarus tale: a real life fable about the miracle of human ingenuity and the frailty of dreams.

Essays on the History of Rocketry and Astronautics, 1970

The First Launch Syed Hassan, 2021-12-13 The book enables us to visualize the pinnacle of multiple historical events in rocket science and traces the origin of modern rocketry to India, its birthplace and cradle of multiple global innovations in the past and on track to rewrite the frontiers of innovation in future.

**History of Rocketry and Astronautics** International Academy of Astronautics, 1997

**A Vertical Empire** C. N. Hill, 2012 A Vertical Empire provides a description of the British rocketry and space programme from the

1950s to 1970s, detailing the Medium Range Ballistic Missile Blue Streak and its conversion to a satellite launcher as part of the European Launcher Development Organisation (ELDO). This extensively revised second edition includes material only made available in the past ten years and the text is supplemented by numerous photographs, sketches and statistics. The all-British satellite Black Arrow is described, as well as the research rocket Black Knight, the Blue Steel missile and the rocket powered interceptor aircraft.

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