



**SPACE SCIENCE:**  
**An Annotated Bibliography**

**(July, 2009)**

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**ASTRONAUTS – BIOGRAPHY**

**First Man: the Life of Neil A. Armstrong**, by James R. Hansen.  
New York: Simon & Schuster, c2005.

The author describes the tragedy, mishaps, and successes of the first man on the moon. He also combines the saga of Armstrong with the historical background of America's introduction to the Age of Space and corrects some of the myths surrounding Neil's journey from novice aviator to commanding the first lunar landing.

**Carrying the Fire: an Astronaut's Journeys**, by Michael Collins;  
with a foreword by Charles A. Lindbergh. New York: Cooper  
Square Press, 2001.

Michael Collins reveals his development from his first flight experiences in the air force, through his days as a test pilot, to his Apollo 11 space walk, presenting an evocative picture of the joys of flight as well as a new perspective on time, light, and movement from someone who has seen the fragile Earth from the other side of the moon.

**Deke!: An Autobiography**, by Donald K. "Deke" Slayton with Michael Cassutt. New York: St. Martin's Press, 1995.

This is the autobiography of one of the original Mercury Seven astronauts. He also told in his own words and in the voices of the men and women who worked with him and knew him best.

## **ASTRONAUTICS**

**This New Ocean: The Story of the First Space Age**, by William E. Burrows. New York: Random House, c1998.

This is the history of the men who have "slipped the surly bonds of Earth." The author also covers about everyone in history--from Daedalus to John Glenn--who ever designed or flew a rocket, trying to "ride the arrow" to the moon and beyond.

**Digital Apollo: Human and Machine in Spaceflight**, by David A. Mindell. Cambridge, MA: The MIT Press, c2008.

This is an excellent and unique historical account of the lengthy and often pitched struggle of designers, engineers, and pilots to successfully integrate man and complex computer systems for the Apollo lunar landings.

**Into that Silent Sea: Trailblazers of the Space Era, 1961-1965**, by Francis French and Colin Burgess. Lincoln: University of Nebraska Press, c2007.

This is the intimate stories of the men and women, American and Russian, with dozens of interviews and also access to Russian and American official documents and family records.

## **MANNED SPACE FLIGHT – SYSTEM ENGINEERING – UNITED STATES**

**Failure Is Not an Option: Mission Control from Mercury to Apollo 12 and Beyond**, by Gene Kranz. New York: Berkley, 2000.

This is the thrilling story of NASA's Mission Control teams that guided the Apollo spacecraft through successful lunar landings and saved the lives of my Apollo 13 crew.

## **PROJECT APOLLO (U.S.) – HISTORY**

**Apollo**, by Charles Murray and Catherine Bly Cox. New York: South Mountain Books, 2004.

This is the classic account of how the United States got to the moon. It is also a book for those who were part of Apollo and want to recapture the experience and for those of a new generation who want to know how it was done.

**Stages to Saturn: A Technological History of the Apollo/Saturn Launch Vehicles**, by Roger E. Bilstein. Gainesville: University Press of Florida, 2003.

This book reveals the study of the development of the Saturn launch vehicle that took Americans to the moon in the 1960s and 1970s. This is also includes a new preface by the author providing a 21st-century perspective on the historic importance of the Saturn project.

**How Apollo Flew to the Moon**, by David W. Woods. New York: Springer, 2007.

The author describes the initial launches through manned orbital spaceflights, comprehensively detailing each step, including computer configuration, the role of ground control,

trajectory planning, lunar orbiting, separation of the Lander, walking and working on the Moon, retrieval of the lunar astronauts and returning to Earth in this massive technical accomplishment.

**In the Shadow of the Moon: A Challenging Journey to Tranquility**, 1965-1969, by Francis French and Colin Burgess. Lincoln: University of Nebraska Press, c2007.

This is the story of the spaceflight, with two superpowers engaged in a titanic struggle to land one of their own people on the moon. It also explores the inspirations, ambitions, personalities, and experiences of the select few whose driving ambition was to fly to the moon.

**Apollo Moon Missions: the Unsung Heroes**, by Billy Watkins. Westport, Conn: Praeger Publishers, 2006.

The author recounts the stories of some of the thousands of men and women who made getting to the moon their daily work and uncanny passion. He also includes the story of a publicist who lobbied for a television camera on Apollo 11.

**Moon Lander: How We Developed the Apollo Lunar Module**, by Thomas J. Kelly. Washington, [D.C.]: Smithsonian Institution Press, c2001.

The author reveals the imaginative process of sketching solutions to a host of technical challenges with an emphasis on safety, reliability, and maintainability. He also recaptures the anticipation of the first unmanned lunar module flight with Apollo 5 in 1968, the exhilaration of hearing Apollo 11's Neil Armstrong report that "The Eagle has Landed," and the pride of having inadvertently provided a vital "lifeboat" for the crew of the disabled Apollo 13.

## **SPACE RACE – HISTORY**

**The Last Man on the Moon: Astronaut Eugene Cernan and America's Race in Space**, by Eugene Cernan and Don Davis. New York: St. Martin's Press, 1999.

Astronaut Cernan reveals the descriptions of his spacewalk from Gemini 9 and stroll around the moon from Apollo 17. He also describes the detailed accounts of each flight, including technical problems and personal tensions.

**The Race: The Complete True Story of How America Beat Russia to the Moon**, by James Schefter. New York: Anchor Books, 1999.

The author covers the space program for over ten years during the height of the space race, here presents the familiar story of the early days of the U.S.-Soviet competition in space began at the end of World War II.

## **SPACE VEHICLE ACCIDENTS – UNITED STATES**

**Apollo 13**, by Jim Lovell & Jeffrey Kluger. Boston: Houghton Mifflin, 2006.

This is the story of America's fifth mission to the moon, Apollo 13, a mission that nearly ended in catastrophe in April 1970.

## **UNITED STATES NATIONAL AERONAUTICS AND SPACE ADMINISTRATION – HISTORY**

**America in Space: NASA's First Fifty Years**, edited by Steven J. Dick ... [et al.]. New York: Abrams, 2007.

This book is written and edited by a team of experienced NASA staffers, and illustrated with many unpublished and rare

photographs from the voluminous NASA archives scattered across the country.

**NASA: The Complete Illustrated History**, by Michael Gorn. New York: Merrell, 2005.

The author describes every US space mission ever undertaken, including those of projects Mercury, Gemini and Apollo, and the development of the Space Shuttle. And then also reveals the up to date information by explaining the functions of NASA's two windows in space: the Hubble Space Telescope and the International Space Station.

## JUVENILE LITERATURE

### ASTRONAUTICS

**Astronaut Handbook**, written and illustrated by Meghan McCarthy. New York: Alfred A. Knopf, 2008.

This is the young, nonfiction picture book about the arduous training required before going into space. The author has created this book to share with children who want to be astronauts when they grow up.

**I Want to Be An Astronaut**, by Byron Barton. New York: Crowell, c1988.

This is the book about a young girl declares her longing to 'fly on the shuttle into outer space.' The familiar acts of eating, sleeping, and working become intense and special as she and the rest of the crew go about their business.

## **PROJECT APOLLO (U.S.)**

**Moonshot: The Flight of Apollo 11**, written and illustrated by Brian Floca. New York: Atheneum Books for Young Readers, 2008.

The author retraces Apollo 11's historic mission in brief but precise detail, and also brilliantly captures the mighty scope and drama of the achievement.

**Team Moon: How 400,000 People Landed Apollo 11 on the Moon**, by Catherine Thimmesh. Boston: Houghton Mifflin Co, 2006.

The author describes with quotes and accompanied by sheaves of period photos, the course of the space mission that landed an actual man, on the actual Moon.

## **SPACE ASTRONOMY**

**First Space Encyclopedia**, written and edited by Caroline Bingham. New York: DK Pub., c2008.

This book includes information about the great Pluto debate and the recent discovery of an Earth-like planet, as well as pictures from the latest voyages by shuttles, rovers, and probes, and the conflicting evidence on aliens and UFOs.

## **SOLAR SYSTEM**

**The moon**, by Seymour Simon. New York: Simon & Schuster Books for Young Readers, 2003.

This book describes the moon and its all-important relationship to Earth with full-color photography and an informative text.

**Space Boy**, written and illustrated by Leo Landry. Boston: Houghton Mifflin Company, 2007.

This book reveals the allure of space travel and the longing for peace and quiet entice a young boy to take his space rocket to the moon for a picnic.

**Stars**, by Seymour Simon. Rev. ed. Washington, D.C: Smithsonian Institution, c2006.

This book designs especially for children about stars with informative photographs and computer drawings.

**The Sun**, by Seymour Simon. New York: Morrow, c1986.

The author discusses the sun as a star; its distance from earth, size, and temperature; the solar system; the sun's hydrogen-fueled nuclear power; the parts of the sun and its atmosphere; eclipses, sunspots, prominences, flares, and the aurorae.

