

On Board Apollo Moonships

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Science News-letter - 1965

Newsletter - 1971

LUNAR MODULE LM 10 THRU LM 14 - Grumman 2013-01-01

Originally created for NASA in 1969 by prime contractor Grumman, this Lunar Module Vehicle Familiarization Manual was mandatory reading for Apollo astronauts, contractors and NASA support staff. This version of the manual describes the so-called ELM, or Extended Lunar Modules designed for the "J" class missions Apollo 15-17 and the never-flown Apollo 18 and 19. The ELM came about as part of NASA's efforts to enhance the scientific study of the Moon and its geology. To do that, longer surface stays would be needed. To make it possible, LM 10 to LM 14 received various modifications intended to increase their payloads, and allow them to return larger samples to Earth. Over forty major changes were planned, including enlarging the fuel and oxidizer tanks on both the ascent and descent stages, extension of the descent engine nozzle to improve its efficiency and allow it to deliver more power, and added capacity of oxygen and water. Some changes, such as adding solar cells and affiliated batteries to allow surface stays of up to 72 hours, proved too difficult given the program's schedule. In the end, the maximum duration of stays on the Moon would be limited to 54 hours. The extended LM weighed up to 36,500 pounds compared to 32,000 for earlier versions. The ELM's larger payload capacity enabled it to carry the 463 pound (mass) Lunar Roving Vehicle and other scientific equipment. The LRV greatly enhanced the astronauts' range and ability to retrieve samples. It's never been easy to find a copy of this text because copies were never made available to the general public -- until now. This reprint features all the original text and diagrams. It's a wonderful reference for the space flight fan, docent or engineering buff or for anyone else who ever wondered, "How'd they do that!"

Newsweek - 1969

The National Rural Letter Carrier - 1976

Boys' Life - 1994-07

Boys' Life is the official youth magazine for the Boy Scouts of America. Published since 1911, it contains a proven mix of news, nature, sports, history, fiction, science, comics, and Scouting.

Airman - 1969

To the Moon! - Jeffrey Kluger 2019-05-07

The exciting and inspiring true story of Apollo 8, the first crewed spaceship to break free of the Earth's orbit and reach the moon, by the best-selling author of Apollo 13. What's more exciting than spaceships and astronauts? How about a spaceship carrying the first astronauts ever to see the moon firsthand--on Christmas! The year was 1968, and the American people were still reeling from the spacecraft fire that killed the Apollo 1 crew a year earlier. On top of that, there were rumors that the Russian cosmonauts were getting ready to fly around the moon. NASA realized that they needed to take a bold step--and that they needed to take it now. They wanted to win the space race against Russia and hold true to President Kennedy's promise to put a man on the moon by the end of the decade. So in a risky move, a few days before Christmas of that year, they sent Frank Borman, Jim Lovell, and Bill Anders to the moon! This book about the exciting and inspiring true story of Apollo 8, the first crewed spaceship to break free of Earth's orbit and reach the moon, tells the story of these three brave men, the frantic rush to get their rocket ready, and the journey that gave the American people--and the world--a new look at the planet we live on and the corner of space we inhabit. Filled with the science and training required to put a person into space, and every detail of what it's like to live in a spaceship for days on end (including what happens when astronauts need to use the bathroom), this book is sure to leave kids clamoring for a spot on the

next mission to outer space.

Moon Missions - William F. Mellberg 1997

Explains how and why we went to the Moon and what the astronauts found there, and considers the questions of whether it was worth the cost and should America go back

Columbia Accident Investigation Report - United States. Columbia Accident Investigation Board 2003

Includes all of the details of the Gehman Report, the official accident report, on the Space Shuttle Columbia's final flight.

Fifty Years Among the New Words - John Algeo 1993-07-30

This book looks at the new words of the past five decades.

The World of Words - Barnet Kottler 1967

Lem Lunar Excursion Module Familiarization Manual - Grumman Aircraft Engineering Co. 2011-05

Designed by Grumman's brilliant Tom Kelly, the Apollo Lunar Excursion Module (or "LEM" for short) was a triumph of purpose-built engineering. In the six years 1962-1968 between drawing board and first flight, a myriad of challenges were overcome related to weight, reliability and safety. The final design, designated the Lunar Module or "LM," boasted tiny windows instead of large portholes, four legs instead of five and most famously had no seats instead relying on the astronauts' legs to cushion a lunar landing. Ten LMs made it into space including three flown in development and test missions, and six which landed on the Moon. A seventh famously saved the crew of Apollo 13 when that mission's Command Module suffered a catastrophic malfunction. Originally created for NASA by Grumman in 1964, this LEM Familiarization Manual provides an operational description of all subsystems and major components of the lunar lander. It includes sections about the LEM mission, spacecraft structure, operational subsystems, prelaunch operations, and ground support equipment."

The Barnhart Dictionary of New English Since 1963 - Clarence Lewis Barnhart 1973

Explains and illustrates the use of numerous American, British, and Canadian terms that have become part of the English language in recent years.

Escaping the Bonds of Earth - Ben Evans 2010-04-02

To commemorate the momentous 50th anniversary of Yuri Gagarin's pioneering journey into space on 12th April 2011, a series of five books -- to be published annually -- will explore this half century, decade by decade, to discover how humanity's knowledge of flying, working and living in space has changed. Each volume will focus not only upon the individual missions within 'its' decade, but also upon the key challenges facing human space exploration at specific points within those 50 years: from the simple problems of breathing and eating in space to the challenges of venturing outside in a pressurised spacesuit and locomotion on the Moon. The first volume of this series will focus upon the 1960s, exploring each mission from April 1961 to April 1971 in depth: from the pioneering Vostok flights to the establishment of the first Salyut space station and from Alan Shepard's modest sub-orbital 'hop' into space to his triumphant arrival at the Moon's Fra Mauro foothills almost a decade later.

A Long Voyage to the Moon - Geoffrey Bowman 2021-11

Biography of Apollo 17 astronaut Ron Evans (1933-1990).

Range Rats at Sea - Dan Kovalchik 2001-01-21

The Range. Think of it as a shooting gallery that circles the globe. A vital link was forged in 1966, when NASA converted a World War II tanker into the USNS Vanguard, one of the most sophisticated communication centers ever to sail the high seas. Range Rats At Sea is an account of one crewmember's attempt to squeeze a lifetime of adventure into two short years. Success, however, hinged upon his ability to win the heart of a shipmate.

Popular Science - 2005-10

Popular Science gives our readers the information and tools to improve

their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

The Aerospace Year Book - 1967

LIFE - 1969-08-08

LIFE Magazine is the treasured photographic magazine that chronicled the 20th Century. It now lives on at LIFE.com, the largest, most amazing collection of professional photography on the internet. Users can browse, search and view photos of today's people and events. They have free access to share, print and post images for personal use.

Popular Science - 2005

Physical Science, Energy, and Our Environment - Peter Fong 1976

Apollo 8 - Jeffrey Kluger 2017-05-16

The untold story of the historic voyage to the moon that closed out one of our darkest years with a nearly unimaginable triumph. In August 1968, NASA made a bold decision: in just sixteen weeks, the United States would launch humankind's first flight to the moon. Only the year before, three astronauts had burned to death in their spacecraft, and since then the Apollo program had suffered one setback after another. Meanwhile, the Russians were winning the space race, the Cold War was getting hotter by the month, and President Kennedy's promise to put a man on the moon by the end of the decade seemed sure to be broken. But when Frank Borman, Jim Lovell and Bill Anders were summoned to a secret meeting and told of the dangerous mission, they instantly signed on. Written with all the color and verve of the best narrative non-fiction, *Apollo 8* takes us from Mission Control to the astronaut's homes, from the test labs to the launch pad. The race to prepare an untested rocket for an unprecedented journey paves the way for the hair-raising trip to the moon. Then, on Christmas Eve, a nation that has suffered a horrendous year of assassinations and war is heartened by an inspiring message from the trio of astronauts in lunar orbit. And when the mission is over—after the first view of the far side of the moon, the first earth-rise, and the first re-entry through the earth's atmosphere following a flight to deep space—the impossible dream of walking on the moon suddenly seems within reach. The full story of *Apollo 8* has never been told, and only Jeffrey Kluger—Jim Lovell's co-author on their bestselling book about *Apollo 13*—can do it justice. Here is the tale of a mission that was both a calculated risk and a wild crapshoot, a stirring account of how three American heroes forever changed our view of the home planet.

Congressional Record - United States. Congress 1965

The *Congressional Record* is the official record of the proceedings and debates of the United States Congress. It is published daily when Congress is in session. The *Congressional Record* began publication in 1873. Debates for sessions prior to 1873 are recorded in *The Debates and Proceedings in the Congress of the United States (1789-1824)*, the *Register of Debates in Congress (1824-1837)*, and the *Congressional Globe (1833-1873)*

Andean Air Mail & Peruvian Times - 1969

The Moon: Target for Apollo - Michael Chester 1963

Chariots for Apollo - Courtney G. Brooks 2012-05-14

This illustrated history by a trio of experts is the definitive reference on the Apollo spacecraft and lunar modules. It traces the vehicles' design, development, and operation in space. More than 100 photographs and illustrations.

Stages to Saturn - Roger E. Bilstein 1999-08

A classic study of the development of the Saturn launch vehicle that took Americans to the Moon in the 1960s. This Saturn rocket was developed as a means of accomplishing President Kennedy's 1961 commitment for the U.S. to reach the Moon before the end of the decade. This book not only tells the important story of the development of the Saturn rocket, and the people who designed and built it, but also recounts the stirring exploits of its operational life from orbital missions around Earth testing Apollo equipment to the Moon and back. Essential reading for anyone seeking to understand the development of space flight in America. Black and white photos.

Countdown - T. A. Heppenheimer 1997-04-15

Exposes the behind-the-scenes events of the U.S. and Soviet space programs, describing key personalities, technologies, successes, and failures encountered along the way

National Geographic - 1969

Boys' Life - 1970-03

Boys' Life is the official youth magazine for the Boy Scouts of America. Published since 1911, it contains a proven mix of news, nature, sports, history, fiction, science, comics, and Scouting.

Science Journal - 1970

Michigan Living - Motor News - 1966

Business Periodicals Index - 1966

U.S. News & World Report - 1969

To Boldly Go - Djoymi Baker 2018-03-06

Today's media, cinema and TV screens are host to new manifestations of myth, their modes of storytelling radically transformed from those of ancient Greece. They present us with narratives of contemporary customs and belief systems: our modern-day myths. This book argues that the tools of transmedia merchandising and promotional material shape viewers' experiences of the hit television series *Star Trek*, to reinforce the mythology of the gargantuan franchise. Media marketing utilises the show's method of recycling the narratives of classical heritage, yet it also looks forward to the future. In this way, it reminds consumers of the *Star Trek* story's ongoing centrality within popular culture, whether in the form of the original 1960s series, the later additions such as *Voyager* and *Discovery* or J. J. Abrams' 'reboot' films. Chapters examine how oral and literary traditions have influenced the series structure and its commercial image, how the cosmological role of humanity and the Earth are explored in title sequences across various *Star Trek* media platforms, and the multi-faceted way in which Internet, video game and event spin-offs create rituals to consolidate the space opera's fan base. Fusing key theory from film, TV, media and folklore studies, as well as anthropology and other specialisms, *To Boldly Go* is an authoritative guide to the function of myth across the whole *Star Trek* enterprise.

Journals of the House of Representatives of Massachusetts -

Massachusetts. General Court. House of Representatives 1966

Aerospace Year Book - 1967

Journal of the House of Representatives of the Commonwealth of Massachusetts - Massachusetts. General Court. House of Representatives 1966

Journal - Massachusetts (Colony). General Court. House of Representatives 1966