## Apollo 13 Lunar Module Aquarius Paper Model.jpg

**NASA** 

Chariots for Apollo Charles R. Pellegrino, Joshua Stoff, 1999 The fascinating and true story of one of America's greatest scientific achievements: the race to put a man on the Moon and bring him home safely.

**Apollo 13** Michael D. Cole,1995 Planned as the third U.S. mission to the moon and fated to become a major space emergency, the flight of Apollo 13 was a struggle for survival against the cold and emptiness of outer space. Give your readers an unforgettable look at this mission.

Apollo 13 United States. National Aeronautics and Space Administration,2000 In 1970 some considered Apollo 13 a catastrophic failure but it has since been recognised as one of NASA's truly great moments, when the spirit of daring and ingenuity came to life in the team at Mission Control as they successfully brought the crew home. In Apollo 13: the NASA mission report some of the rare official documentation of the voyage of Apollo 13 is collected and made commercially available for the first time.

Apollo 13: "Houston, We've Got a Problem." United States. National Aeronautics and Space Administration. Office of Public Affairs, 1970

**Apollo 13 Photographic Data Package** National Space Science Data Center,1970

**Building Moonships** Joshua Stoff,2004 In 1961, after the United States had acquired a total of fifteen minutes of spaceflight experience, President John F. Kennedy announced his plans for landing a man on the moon by 1970. The space race had begun. In 1962, after a strenuous competition, the National Aeronautics and Space Administration (NASA) announced that the Grumman Aircraft Engineering Corporation of Bethpage, Long Island, had won the contract to build the lunar module-the spacecraft that would take Americans to the moon. This was the first, and the only, vehicle designed to take humans from one world to another.

Although much has been written about the first men to set foot on the moon, those first hesitant steps would not have been possible without the efforts of the designers and technicians assigned to Project Apollo. Building Moonships: The Grumman Lunar Module tells the story of the people who built and tested the lunar modules that were deployed on missions as well as the modules that never saw the light of day. This is the first publication to chronicle the visual history of the design, construction, and launch of the lunar module-one of the most historic machines in all of human history.

Moon Lander Thomas J. Kelly,2012-01-11 Chief engineer Thomas J. Kelly gives a firsthand account of designing, building, testing, and flying the Apollo lunar module. It was, he writes, "an aerospace engineer's dream job of the century." Kelly's account begins with the imaginative process of sketching solutions to a host of technical challenges with an emphasis on safety, reliability, and maintainability. He catalogs numerous test failures, including propulsion-system leaks, ascent-engine instability, stress corrosion of the aluminum alloy parts, and battery problems, as well as their fixes under the ever-present constraints of budget and schedule. He also recaptures 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.

**Thirteen** Henry S. F. Cooper,1995-08 On April 13, 1970 an explosion rocked the moon-bound Apollo 13 craft, 205,000 miles from Earth, damaging engines and life-support systems. This minute-by-minute account of the only manned NASA mission to have malfunctioned outside Earth's orbit describes the entire episode.

<u>Mission Report, Apollo 10</u> United States. National Aeronautics and Space Administration,1969

**Apollo - America's Moon Landing Program** National Aeronautics and Space Administration (NASA), World Spaceflight

News (WSN), U. S. Government, 2017-05-04 The primary objective of this paper is to present an analysis and a historical review of the Apollo Lunar Module landing dynamics from the standpoint of touchdown dynamic stability, landing system energy absorption performance, and evaluation of the first-order terms of lunar soil mechanical properties at the Apollo 11 landing site. The first-order terms of lunar surface mechanical properties consisted primarily of the surface bearing strength and sliding friction coefficient. The landing dynamic sequence started at first footpad contact. The flight dynamics data used to assess the Apollo 11 landing system performance and the lunar soil mechanical properties included the body axis pitch, roll, and yaw rate time histories as measured by the on-board guidance computer during the Apollo 11 Lunar Module touchdown maneuver, and the landing gear stroke data derived from post-landing photographs. The conclusions drawn from these studies were that the landing gear system performance was more than adequate from a stability and energy absorption standpoint for all Apollo lunar landings, and the lunar soil parameters were well within the limits of the design assumptions for all Apollo landing sites. Chapter 1.0 - Introduction \* Chapter 2.0 - Landing Dynamic Analysis \* Chapter 3.0 - Drop Testing of Subscale and Full-scale Lunar Module Models \* Chapter 4.0 - The Lunar Module \* Chapter 5.0 - Critical Design Cases \* Chapter 6.0 -Analysis of the Apollo 11 Lunar Module Landing Dynamics and Lunar Surface Mechanical Properties \* Chapter 7.0 - The Apollo Lunar Module Landings \* 7.1 Apollo 11 Lunar Landing \* 7.1.1 Summary: Apollo 11 Lunar Module Landing \* 7.2 Apollo 12 Lunar Landing \* 7.2.1 Summary: Apollo 12 Lunar Module Landing \* 7.3 Apollo 13 Lunar Landing (Aborted) \* 7.4 Apollo 14 Lunar Landing \* 7.4.1 Summary: Apollo 14 Lunar Module Landing \* 7.5 Apollo 15 Lunar Landing \* 7.5.1 Summary: Apollo 15 Lunar Module Landing \* 7.6 Apollo 16 Lunar Landing \* 7.6.1 Summary: Apollo 16 Lunar Module Landing \* 7.7 Apollo 17 Lunar Landing \* 7.7.1 Summary: Apollo 17 Lunar Module Landing \* Chapter 8.0 - Author's

Annotation - Apollo 16 and 17 Landings \* Chapter 9.0 - Conclusions \* Chapter 10.0 - References \* Appendix A: Apollo 11 Lunar Module Touchdown Dynamics \* Appendix B: Lunar Soil Mechanical Properties Model \* Appendix C: Apollo 11 Lunar Module Mass Properties at Touchdown \* Appendix D: Apollo 11 Lunar Module Landing Gear Load Stroke Characteristics \* Appendix E: Apollo 11 Lunar Module Descent Engine Thrust Tail-off Characteristics

Apollo Russell E. Chappell, 1974

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.

Chariots for Apollo Courtney G. Brooks, James M. Grimwood, Loyd S. Swenson, Paul Dickson, 2009-03-26 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.

Apollo 13: LM Systems Activation Checklist Leonard Payne,2020-11-10 Apollo 13 was the seventh crewed mission in the Apollo space program and the third meant to land on the Moon. The craft was launched from Kennedy Space Center on April 11, 1970, but the lunar landing was aborted after an oxygen tank in the service module (SM) failed two days into the mission. The crew instead looped around the Moon, and returned safely to Earth on April 17. - To commemorate this, we have reproduced The LM (Lunar Module) Systems Activation Checklist in hard book form. A wonderful memento of this thrilling adventure.

Houston, We've Had a Problem Charles River Charles River Editors, 2017-12-20 \*Includes pictures \*Includes accounts of the mission written by the astronauts and members of Mission Control \*Includes online resources and a bibliography for further reading \*Includes a table of contents The only experiment we completed on Apollo 13 was not on the original mission list. - James Lovell, Jr. In the summer of 1969, Apollo 11 successfully landed men on the Moon for the first time in history, and Apollo 12 successfully landed astronauts on the Moon just a few months after Apollo 11's successful mission. Apollo 12 was actually more successful than Apollo 11 from the standpoint of fulfilling the mission objectives, but it was naturally overshadowed since it did not come first. Another reason Apollo 12 is mostly forgotten today can be credited to the dramatic and fateful Apollo 13 mission, which took twists and turns nobody could have predicted when it launched on April 11, 1970. Apollo 13's mission was to land on the Moon near the Fra Mauro highlands, which were hills that had somehow formed in the middle of a huge crater tens of miles wide. The mission was supposed to test for seismic activity and take samples to analyze the crater and try to find an explanation for the formation of the hills. Of course, as is widely known today, Apollo 13 never made the landing. The ever-dependable Saturn V properly thrust Apollo 13 out of the Earth's orbit and toward the Moon, but two days into

the voyage, the crew heard a loud bang. At first, the crew was not sure what had happened, leading Commander James Lovell to famously transmit to Mission Control, Houston, we've had a problem. As it turned out, one of the main oxygen tanks had ruptured in the Service Module, causing a catastrophic failure. The Command/Service Module's fuel cells all shut down, leaving the command/Service Module to run on backup batteries. In other words, Apollo 13 was adrift between the Earth and the Moon with limited battery power. With severely limited supplies and power, Apollo 13 shut down the Command/Service Module altogether, and the entire crew had to rely on camping out in the Lunar Module, which was only equipped to support two astronauts. The Moon landing was obviously out of the question, but Apollo 13 still had to orbit around the Moon to head back to Earth, a trip that would take four more days. Power and water were the two most critical shortages, forcing the crew to maintain the Lunar Module at low energy. The crew also had to worry about carbon dioxide building up and poisoning them, because the Lunar Module's system to remove carbon dioxide was designed to support two people for a few days, not three people for four days. Once Apollo 13 rounded the Moon and headed back to Earth, the crew and Mission Control managed to restart the Command/Service Module, rerouting power from the Lunar Module to the Command/Service Module. The crew also had to manually realign the spacecraft for reentry, as Lovell had done for Apollo 8. Before reentry, the Service Module was jettisoned from the spacecraft, and pictures of it were taken to see what went so terribly wrong. The crew then jettisoned the Lunar Module that had saved their lives, leaving it to burn up in the Earth's atmosphere. On the afternoon of April 17, Apollo 13's Command Module made a nerve-wracking but successful reentry into Earth's atmosphere, allowing Lovell to consider the mission a successful failure. Gene Kranz, the Lead Flight Controller at Mission Control, considered Apollo 13's safe return to be NASA's finest hour. Houston, We've Had a Problem: The History of the

Apollo 13 Mission analyzes the conception of the Apollo program and the events that brought about one of the most famous space missions in history. Along with pictures of important people, places, and events, you will learn about Apollo 13 like never before, in no time at all.

**Apollo 13** Jim Lovell, Jeffrey Kluger, 1995 April 13, 1970. Astronauts Jim Lovell, Fred Haise and Jack Swigert are hurtling towards the moon in the Apollo 13 spacecraft, when an explosion rocks the ship. The cockpit grows dim, the air grows thin, and the instrument lights wink out. Moments later, the astronauts are forced to abandon the main ship for the tiny lunar module, designed to keep two men alive for just two days. But there are three men aboard and they are four days from home. As the action shifts from the disabled ship to the frantic engineers at Mission Control to Lovell's anxious family, APOLLO 13 brilliantly recreates the harrowing, heroic mission in all its drama and glory. This gripping story of human endurance is the basis for Ron Howard's classic film starring Tom Hanks and Kevin Bacon.

NASA APOLLO SPACECRAFT LUNAR E NASA.2011-09-01 Originally created in 1971 by NASA contractor Grumman, the Apollo Spacecraft News Reference (LEM) was intended to educate members of the media, government, and private sector contractors about one of history's most ambitious undertakings. Within its pages you'll find general information about the Apollo Program, and a detailed examination of the Lunar Excursion Module and crew extra-vehicular activity procedures and equipment. (A companion book that focuses on the CM is also available.) Scores of photos and diagrams accompany the easy-tounderstand text. Chapters include: Introduction, Mission Description, Apollo Spacecraft, Lunar Module, Crew Personal Equipment, Environmental Control, Control and Displays, Guidance, Navigation, and Control, Main Propulsion, Reaction Control, Electrical Power, Communications, Instrumentation, Lighting, Portable Life Support System, Biographies, Grumman

Aircraft Corp., Brief History of the LM, LM Manufacturing, Glossary, Contractors, The Moon (chapter written by Richard C. Hoagland), Index, and the LM Anatomy Booklet (reprinted in black and white). It also includes a fascinating chapter about LM Derivatives, showing how variations of the LM could have been built and flown in support of a wide variety of missions. Although it may be one of the most complete studies of the systems and technology that made landing on the Moon possible, it's never been easy to find copies of this text because copies were never widely released -- until now. This reprint is of an edition featuring a mission similar to Apollo 15, 16 or 17, with astronauts performing three 7-hour EVAs using the Lunar Roving Vehicle. It features all the original text, diagrams and photos. 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!

**Thirteen** Henry S. F. Cooper,1995-08-01 An examination of the Apollo 13 mission focuses on the explosion that jeopardized the astronauts' lives and NASA's efforts to prevent disaster.

**Triumph Over Disaster Aboard Apollo 13** Henry M. Holden,2004 Relates events of the April, 1970, flight of Apollo 13, the third mission to the Moon, which was aborted after an explosion critically damaged the command module and nearly claimed the lives of the three astronauts aboard.

Apollo Spacecraft News Reference Robert Goodwin,2011-06-15 Book & DVD. The Ultra Rare and Coveted Apollo News Reference Manuals. These books have become legendary amongst the space collecting fraternity and have been known to sell at auction for as much as \$6,000 for the pair. Each book comes with an accurate replica of the original 1960's cover and the pages are set out in the same sequence as the original. Hundreds of pages of in depth detail about the Apollo spacecraft in the exact words of the contractors who built them. Along with the companion Command Module book the chapters include: Crew Systems, Displays and Controls, Docking, Earth Landing, Electrical Power, Environmental

Control, Launch Escape, Reaction Control, Service Propulsion, Stabilization & Control, Telecommunications, Guidance & Navigation, Space Suit, Automatic Checkout Equipment, Kennedy Space Center Operations, Training Equipment, Test & Reliability, Manufacturing, Launch Vehicles, Mission Description, Crew Personal Equipment, Propulsion, Electrical Power, Lighting, PLSS, LM Anatomy, Biographies and not least the exciting chapter on LM Derivatives. The what-ifs of the Apollo program.

Delve into the emotional tapestry woven by in Dive into the Emotion of **Apollo 13 Lunar Module Aquarius Paper Model.jpg**. This ebook, available for download in a PDF format (\*), is more than just words on a page; itis a journey of connection and profound emotion. Immerse yourself in narratives that tug at your heartstrings. Download now to experience the pulse of each page and let your emotions run wild.

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