

Apollo 13 Lunar Module Aquarius Paper Model.jpg9d7bd4

United States. National Aeronautics and Space Administration. Office of Public Affairs

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

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

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.

Mission Report, Apollo 10 United States. National Aeronautics and Space Administration,1969

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.

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.

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 and America's Moon Landing Program - Managers Explain What Made Apollo a Success, The First Lunar Landing as Told by the Astronauts, Lunar Roving Vehicle (LRV) Historical Perspective World Spaceflight News, Eugene Kranz, George Low, Neil Armstrong, Michael Collins, Edwin "Buzz" Aldrin Jr., National Aeronautics and Space Administration (NASA), 2018-01-05 These official NASA history documents provide unique accounts of the Apollo lunar landing program. The first document, What Made Apollo A Success? (NASA SP-287) describes three of the basic ingredients of the success of Apollo: spacecraft hardware that is most reliable, flight missions that are extremely well planned and executed, and flight crews that are superbly trained and skilled. Contents: Introduction by George M. Low; Design Principles Stressing Simplicity by Kenneth S. Kleinknecht; Testing To Ensure Mission Success by Scott H. Simpkinson; Apollo Crew Procedures, Simulation, And Flight Planning by Warren J. North And C. H. Woodling; Flight Control In The Apollo Program by Eugene F. Kranz And James Otis Covington; Action On Mission Evaluation And Flight Anomalies by Donald D. Arabian; Techniques Of Controlling The Trajectory by Howard W. Tindall, Jr.; Flexible Yet Disciplined Mission Planning by C. C. Kraft, Jr., J. P. Mayer, C. R. Huss, And R. P. Parten. The introduction states: We will limit ourselves to those tasks that were the direct responsibility of the NASA Manned Spacecraft Center: spacecraft development, mission design and mission planning, flight crew operations, and flight operations. We will describe spacecraft design principles, the all-important spacecraft test activities, and the discipline that evolved in the control of spacecraft changes and the closeout of spacecraft anomalies; and we will discuss how we determined the best series of flights to lead to a lunar landing at the earliest possible time, how these flights were planned in detail, the techniques used in establishing flight procedures and carrying out flight operations, and, finally, crew training and simulation activities - the activities that led to a perfect flight execution by the astronauts. The First Lunar Landing As Told By The Astronauts Armstrong, Aldrin, and Collins in a Post-flight Press Conference, the second document in this ebook compilation, is a transcript of the Apollo 11 conference. It's a description of man's historic first trip to another celestial body by the men who made the journey. Neil Armstrong, commander of Apollo 11, began the first-hand report to the world of the epic voyage of Eagle and Columbia to the Moon and back to Earth. After 24 hours in lunar orbit Armstrong and Aldrin separated Eagle from Columbia, to prepare for descent to the lunar surface. On July 20 at 4:18 p.m. EDT, the Lunar Module touched down on the Moon at Tranquility Base. Armstrong reported The Eagle

Has Landed. And at 10:56 p.m., Armstrong, descending from Eagle's ladder and touching one foot to the Moon's surface, announced: That's one small step for a man, one giant leap for mankind. Aldrin soon joined Armstrong. Before a live television camera which they set up on the surface, they performed their assigned tasks. The third and final document, The Lunar Roving Vehicle - Historical Perspective, is a detailed examination of the success of the moon rover by an engineer at the NASA Marshall Space Flight Center in Huntsville, Alabama. The purpose of this paper is to raise the consciousness level of the current space exploration planners to what, in the early 1970s, was a highly successful roving vehicle. During the Apollo program, the vehicle known as the Lunar Roving Vehicle (LRV) was designed for carrying two astronauts, their tools, and the equipment needed for rudimentary exploration of the Moon. This paper contains a discussion of the vehicle, its characteristics, and its use on the Moon. Conceivably, the LRV has the potential to meet some future requirements, either with relatively low cost modifications or via an evolutionary route. This aspect, however, is left to those who would choose to further study these options.

Apollo and America's Moon Landing Program World Spaceflight News, James A. Lovell Jr., Fred W. Haise Jr., John L. Swigert Jr., National Aeronautics and Space Administration (NASA), 2017-08-30 This official NASA document provides the complete transcription of the Apollo 13 post-flight debriefing given by astronauts Lovell, Haise, and Swigert, with their first-hand description of the harrowing flight. This ebook is an invaluable addition to the library of anyone interested in the Apollo moon landings. Contents include: SUITING AND INGRESS * STATUS CHECKS AND COUNTDOWN * POWERED FLIGHT * EARTH ORBIT AND SYSTEMS CHECKOUT * TLI THROUGH S-IVB CLOSEOUT * TRANSLUNAR COAST * LUNAR MODULE FAMILIARIZATION * SPACECRAFT EMERGENCY * LUNAR FLYBY THROUGH 2-HOUR MANEUVER * TRANSEARTH COAST * ENTRY * LANDING AND RECOVERY * COMMAND AND SERVICE MODULE SYSTEMS OPERATIONS * LUNAR MODULE SYSTEMS OPERATIONS * FLIGHT DATA FILE * FLIGHT EQUIPMENT AND GOVERNMENT-FURNISHED EQUIPMENT * VISUAL SIGHTINGS * PREMISSION PLANNING * MISSION CONTROL * TRAINING * HUMAN FACTORS Apollo 13 was supposed to land in the Fra Mauro area. An explosion on board forced Apollo 13 to circle the moon without landing. The Fra Mauro site was reassigned to Apollo 14. At 5 1/2 minutes after liftoff, John Swigert, Fred Haise and James Lovell felt a little vibration. Then the center engine of the S-II stage shut down two minutes early. This caused the remaining four engines to burn 34 seconds longer than planned, and the S-IVB third stage had to burn nine seconds longer to put Apollo 13 in orbit. Days before the mission, backup lunar module pilot, Charles Duke, inadvertently exposed the crew to German measles. Command Module Pilot Ken Mattingly had no immunity to measles and was replaced by backup command module pilot, John Swigert. Ground tests before launch indicated the possibility of a poorly insulated supercritical helium tank in the lunar module, or LM, descent stage, so the flight plan was modified to enter the LM three hours early in order to obtain an onboard readout of helium tank pressure. The No. 2 oxygen tank, serial number 10024X-TA0009, had been previously installed in the service module of Apollo 10, but was removed for modification and damaged in the process. The tank was fixed, tested at the factory, installed in the Apollo 13 service module and tested again during the Countdown Demonstration Test at NASA's Kennedy Space Center beginning March 16, 1970. The tanks normally are emptied to about half full. No. 1 behaved all right, but No. 2 dropped to only 92 percent of capacity. Gaseous oxygen at 80 pounds per square inch was applied through the vent line to expel the liquid oxygen, but to no avail. An interim discrepancy report was written, and on March 27, two weeks before launch, detanking operations resumed. No. 1 again emptied normally, but No. 2 did not. After a conference with contractor and NASA personnel, the test director decided to boil off the remaining oxygen in No. 2 by using the electrical heater within the tank. The technique worked, but it took eight hours of 65-volt DC

power from the ground support equipment to dissipate the oxygen. Due to an oversight in replacing an underrated component during a design modification, this turned out to severely damage the internal heating elements of the tank.

Apollo 13 Lunar Module Aquarius Paper Model.jpg9d7bd4: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have charmed audiences this year. Apollo 13 Lunar Module Aquarius Paper Model.jpg9d7bd4 : Colleen Hoover "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Apollo 13 Lunar Module Aquarius Paper Model.jpg9d7bd4 : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Apollo 13 Lunar Module Aquarius Paper Model.jpg9d7bd4 : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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