Lunar Projectile Vehicle

Simon C. Sommer, Barbara J. Short

Mobility Performance of the Lunar Roving Vehicle Nicholas C. Costes, John E. Farmer, Edwin B. George, 1972 The constraints of the Apollo 15 mission dictated that the average and limiting performance capabilities of the first manned Lunar Roving Vehicle, when operated on the lunar vehicle, be known or estimated within narrow margins. For this reason, extensive studies were conducted during the year preceding the Apollo 15 launch and are described herein. The results of these studies are compared with the actual performance of the Lunar Roving Vehicle during the Apollo 15 mission. From this comparison, conclusions are drawn relating to the capabilities and limitations of current terrestrial methodology in predicting the mobility performance of lunar roving vehicles under in-situ environmental conditions, and recommendations are offered concerning the performance of surface vehicles on future missions related to lunar or planetary exploration.

Point Return from a Lunar Mission for a Vehicle that Maneuvers Within the Earth's Atmosphere Simon C. Sommer, Barbara J. Short, 1961

A Procedure for Computing the Motion of a Lunar-landing Vehicle During the Landing Impact William C. Walton, Barbara J. Durling, 1967

Lunar Module Lm 10 Thru Lm 14 Vehicle Familiarization Manual Grumman, NASA, 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 Jclass 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!

Apollo Lunar Roving Vehicle (LRV) greatly expanded the survey range of the astronauts on Apollo 15, 16 and 17. Designed to operate in the low-gravity vacuum of the Moon, the LRV boasted an ingenious design that allowed it to be folded up and stored inside the Lunar Module. It would then be deployed using a system of pulleys and brake reels. The LRV's frame was made of aluminum alloy 2219 tubing assemblies, giving the vehicle a fairly small mass of 210kg but allowing it to carry up to 490kg on the lunar surface. The LRV's lightweight tires were made of zinc-coated steel strands with titanium chevrons and aluminum hubs, and offered a ground clearance of 36cm. The LRV featured two side-by-side, foldable seats, a TV camera, and a dish antenna. Four independent DC motors - one for each wheel - powered by two 36-volt batteries provided maneuvering power. Both sets of wheels could be used to steer, although they could also be decoupled. For safety reasons, astronauts never drove the LRV a distance farther from the LM than they could safely walk in the unlikely event that the rover failed. On each of the three day missions that it was employed, the LRV was used daily for three traverses. The longest was on Apollo 17, when it was driven 20.1km, and it traveled a total of 35.9km on that mission. The total distance traveled by all three LRVs was 90.4km. Almost all of it was done without incident, although some damage to the fender extensions caused dust problems on Apollo 16 and 17. Harrison Schmitt of Apollo 17 praised the design and operation of the vehicle, saying ...the Lunar Rover proved to be the reliable, safe and flexible lunar exploration vehicle we expected it to be. Originally created for the astronauts by prime contractor Boeing, this Lunar Roving Vehicle Operations Handbook describes the LRV and its systems, and details the deployment and driving procedures. It also details the 1-gravity LRV used to train astronauts on Earth. A lengthy appendix provides performance and other data.

Unconventional, Contrary, and Ugly Gene J. Matranga, 2006

The Lunar Roving Vehicle 1G Trainer William F. Probert,2012 Three Lunar Roving Vehicles were left parked at different sites on the surface of the moon some forty years ago. They had flown on the last three Apollo Missions; 15, 16 and 17. Both the prime and backup crew members of these flights had developed their LRV operating skills and procedures, on a terrestrial equivalent called the 1G Trainer. The Lunar Roving Vehicle 1G Trainer by William F. Probert is a collection of photographs documenting the configuration of this one-of-a-kind vehicle as it was being built in 1970. The 1G Trainer was the terrestrial equivalent of the Lunar Roving Vehicle in terms of performance and physical characteristics, other than for its non-folding frame. It provided a platform for developing skills and operational procedures to be followed once the astronauts were on the lunar surface. The primary and backup Commander and LEM Pilot for the Apollo missions 15, 16, and 17 were the principal participants.

NASA Thesaurus, 1967

Analysis of Maximum Range Trajectories for Rocket-propelled Lunar Flying Vehicles in a Uniform Gravitational Field A. Gary Childs, Ernest S. Armstrong, 1969

The Lunar Exploration Scrapbook Robert Godwin, 2007 From single-seat landers to rocket backpacks and lunar bulldozers, this study takes readers into the imagination of the world's top aerospace engineers by presenting NASA's lunar spacecraft research.

Lunar Impact R. Cargill Hall,1977

Technology of Lunar Exploration Clifford Cumming, 2012-12-02 Progress in Astronautics and Rocketry, Volume 10: Technology of Lunar Exploration is an overview of the technical base of the lunar exploration problem. This volume is organized into six sections encompassing 35 that follow the various stages of accomplishment of a lunar mission, involving landing on or orbiting the moon and returning to the earth. The first section is devoted to the problem of trying to define the lunar environment, emphasizing the theories of the lunar environment as it relates to the internal structure of the moon. This section also describes some activities to achieve a reasonable theory concerning what might be encountered in some of the previous lunar flight programs. The second section explores the problems associated with the limitations imposed upon lunar missions by the launch vehicles and launching facilities. The third section looks at the spacecraft systems and techniques required for lunar missions, particularly the technology and specific subsystems in relation to the requirements imposed by specific lunar mission objectives. The fourth section deals with the actual landing on the moon and the subsequent surface operations, while the fifth section covers the lunar launch, return, flight re-entry, and subsequent landing on earth. The sixth section reports the status of the projects that represent the United States lunar exploration program, which integrates the technologies developed in the preceding sections into certain discrete projects.

Landing Dynamics Study for Lunar Landing Research Vehicle D. C. Irwin,1966

Minimum Fuel Ascent from the Lunar Surface Albert E. Brown, 1967

A Procedure for Computing the Motion of a Lunar-landing Vehicle During the Landing Impact William C. Walton, Barbara J. Durling, 1967

Effects of Some Typical Geometrical Constraints on Lunar Trajectories Robert H. Tolson,1961

The Development of Wheels for the Lunar Roving Vehicle National Aeronautics and Space Administration (NASA), 2018-05-20 The Lunar Roving Vehicle (LRV) was developed for NASA s Apollo program so astronauts

could cover a greater range on the lunar surface, carry more science instruments, and return more soil and rock samples than by foot. Because of the unique lunar environment, the creation of flexible wheels was the most challenging and time consuming aspect of the LRV development. Wheels developed for previous lunar systems were not sufficient for use with this manned vehicle; therefore, several new designs were created and tested. Based on criteria set by NASA, the choices were narrowed down to two: the wire mesh wheel developed by General Motors (GM), and the hoop spring wheel developed by the Bendix Corporation. Each of these underwent intensive mechanical, material, and terramechanical analyses, and in the end, the wire mesh wheel was chosen for the LRV. Though the wire mesh wheel was determined to be the best choice for its particular application, it may be insufficient towards achieving the objectives of future lunar missions that could require higher tractive capability, increased weight capacity, or extended life. Therefore lessons learned from the original LRV wheel development and suggestions for future Moon wheel projects are offered. Asnani, Vivake and Delap, Damon and Creager, Colin Glenn Research Center LUNAR ROVING VEHICLES; WHEELS; LUNAR ENVIRONMENT; LUNAR SURFACE; LESSONS LEARNED; SOIL SAMPLING; MOON

Point Return from a Lunar Mission for a Vehicle that Maneuvers Within the Earth's Atmosphere Simon C. Sommer, Barbara J. Short, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION WASHINGTON D C.,1961 The point return of a vehicle with a lift-to-drag ratio of 1/2, returning from a lunar mission, was investigated. The range of a vehicle that is restricted to an altitude below 400,000 feet after entry is compared to the range of a vehicle that is allowed to skip to an altitude of 400 miles. Required entry conditions for point return are examined for sample cases of skip and no-skip trajectories.

Design and Operational Characteristics of a Lunar-landing Research Vehicle Donald R. Bellman, Gene J. Matranga, 1965

Analysis of Two Thrusting Techniques for Soft Lunar Landings Starting from a 50-mile Altitude Circular Orbit M. J. Queijo, G. Kimball Miller, 1962

Lunar Projectile Vehicle Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has be evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Lunar Projectile**Vehicle, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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