

Lunar Rover

M. D. Williams

Across the Airless Wilds Earl Swift, 2021-07-06 THRILLING. ... Up-end[s] the Apollo narrative entirely. —The Times (London) A brilliantly observed (Newsweek) and endlessly fascinating (WSJ) rediscovery of the final Apollo moon landings, revealing why these extraordinary yet overshadowed missions—distinguished by the use of the revolutionary lunar roving vehicle—deserve to be celebrated as the pinnacle of human adventure and exploration. One of The Wall Street Journal's 10 Best Books of the Month 8:36 P.M. EST, December 12, 1972: Apollo 17 astronauts Gene Cernan and Jack Schmitt braked to a stop alongside Nansen Crater, keenly aware that they were far, far from home. They had flown nearly a quarter-million miles to the man in the moon's left eye, landed at its edge, and then driven five miles in to this desolate, boulder-strewn landscape. As they gathered samples, they strode at the outermost edge of mankind's travels. This place, this moment, marked the extreme of exploration for a species born to wander. A few feet away sat the machine that made the achievement possible: an electric go-cart that folded like a business letter, weighed less than eighty pounds in the moon's reduced gravity, and muscled its way up mountains, around craters, and over undulating plains on America's last three ventures to the lunar surface. In the decades since, the exploits of the astronauts on those final expeditions have dimmed in the shadow cast by the first moon landing. But Apollo 11 was but a prelude to what came later: while Neil Armstrong and Buzz Aldrin trod a sliver of flat lunar desert smaller than a football field, Apollos 15, 16, and 17 each commanded a mountainous area the size of Manhattan. All told, their crews traveled fifty-six miles, and brought deep science and a far more swashbuckling style of exploration to the moon. And

they triumphed for one very American reason: they drove. In this fast-moving history of the rover and the adventures it ignited, Earl Swift puts the reader alongside the men who dreamed of driving on the moon and designed and built the vehicle, troubleshooted its flaws, and drove it on the moon's surface. Finally shining a deserved spotlight on these overlooked characters and the missions they created, *Across the Airless Wilds* is a celebration of human genius, perseverance, and daring.

Lunar and Planetary Rovers Anthony Young, 2007-07-05 This book fills a need for a complete history of the Lunar Roving Vehicle used on Apollo 15, 16 and 17, drawing on many photographs never before published. It also tells the story of the robotic rovers used on Mars, and concludes with a description of the new designs of rovers planned for The New Vision for Exploration now underway at NASA. The book provides extensive quotes from the astronauts who drove the LRV on the Moon from interviews conducted especially for the book. It also details new material from interviews of engineers and managers at the Jet Propulsion Laboratory covering the robotic rovers, Sojourner, Spirit and Opportunity.

The Moon Buggy George Creechill, 2017-02-23 This children's book shows astronauts driving cars on the Moon! Learn how astronauts traveled to the Moon in giant rockets. This is a science book for children who will learn about the Moon Buggy, astronauts and rockets. Features amazing color photos by NASA that show astronauts, rockets, and the Moon Buggy on the Moon. The Lunar Roving Vehicle, also known as the Moon Buggy is a car that people drove on the moon! This book tells the story of how they flew in rockets to the Moon and how astronauts drove the Moon Buggy on the surface of the Moon. The perfect present for every aspiring astronaut!

Lunar and Planetary Rovers Anthony Young,2008-11-01 This book fills a need for a complete history of the Lunar Roving Vehicle used on Apollo 15, 16 and 17, drawing on many photographs never before published. It also tells the story of the robotic rovers used on Mars, and concludes with a description of the new designs of rovers planned for The New Vision for Exploration now underway at NASA. The book provides extensive quotes from the astronauts who drove the LRV on the Moon from interviews conducted especially for the book. It also details new material from interviews of engineers and managers at the Jet Propulsion Laboratory covering the robotic rovers, Sojourner, Spirit and Opportunity.

Inside the Lunar Rover Christopher Riley,David Woods,Phil Dolling,2017-07-15 This comprehensive guide gives insight into the first vehicle ever built to be driven on the surface of another body – the Apollo mission's lunar module. Prefaced by a foreword by the first Apollo astronaut to drive the lunar lander, this title is both a mechanical guide with illustrations and technical drawings and a fascinating narrative of engineering ingenuity and human triumph. It draws on NASA's rich photographic archive and the complete transcripts of the crews' reaction to driving across the moon. With its blend of engineering principles and detailed images, this informative guide will engage space geeks and novices alike.

Lunar Rover Manual Christopher Riley,David Woods,Philip Dolling,2012-12-01 From the popular Haynes Owners' Workshop Manual space series, which includes NASA Apollo 11 Manual and NASA Space Shuttle Manual, this unique book provides an insight into the only car ever built to be driven on the surface of another world. With a Foreword by the first Apollo astronaut to drive it on the Moon, Dave Scott, and published to coincide with the

40th anniversary of mankind's final drive on the Moon in December 2012. The book is part mechanical guide, illustrated with many of the technical drawings from the time, and part narrative-driven story of engineering ingenuity and human triumph. It draws on the rich NASA photographic archive and the complete transcripts of the crews' reaction to driving across the Moon, which the authors have an un-paralleled knowledge and experience of working with.

Hadley the Lunar Rover Demetri Capetanopoulos, 2019-12-23 Once upon a time, humans braved the vast emptiness of space, set up experiments on the moon, and spun tires in the lunar dust. As the years and missions to other planets flew by, Hadley the Lunar Rover and her friends sat waiting, wondering about just one thing . . .

Planetary Surface Exploration National Aeronaut Administration (Nasa), 2018-07-10 Planetary surface exploration micro-rovers for collecting data about the Moon and Mars was designed by the Department of Mechanical Engineering at the University of Idaho. The goal of both projects was to design a rover concept that best satisfied the project objectives for NASA-Ames. A second goal was to facilitate student learning about the process of design. The first micro-rover is a deployment mechanism for the Mars Environmental SURvey (MESUR) Alpha Particle/Proton/X-ray instruments (APX). The system is to be launched with the sixteen MESUR landers around the turn of the century. A Tubular Deployment System and a spiked-legged walker was developed to deploy the APX from the lander to the Martian surface. While on Mars the walker is designed to take the APX to rocks to obtain elemental composition data of the surface. The second micro-rover is an autonomous, roving vehicle to transport a sensor package over the surface of the moon. The vehicle

must negotiate the lunar-terrain for a minimum of one year by surviving impacts and withstanding the environmental extremes. The rover is a reliable track-driven unit that operates regardless of orientation which NASA can use for future lunar exploratory missions. A detailed description of the designs, methods, and procedures which the University of Idaho design teams followed to arrive at the final designs are included. Stauffer, Larry and Diloranzo, Matt and Austin, Dave and Ayers, Raymond and Burton, David and Gaylord, Joe and Kennedy, Jim and Lentz, Dale and Laux, Richard and Nance, Preston Unspecified Center...

Technology of Lunar Soft Lander Deng-Yun Yu,Ze-Zhou Sun,He Zhang,2021-03-25

This book provides systematic descriptions of design methods, typical techniques, and validation methods for lunar soft landers, covering their environmental design, system design, sub-system design, assembly, testing and ground test validation based on the Chang'e-3 mission. Offering readers a comprehensive, systematic and in-depth introduction to the technologies used in China's lunar soft landers, it presents detailed information on the design process for Chang'e-3, including methods and techniques that will be invaluable in future extraterrestrial soft lander design. As such, the book offers a unique reference guide for all researchers and professionals working on deep-space missions around the globe.

Apollo 11 Composition Books by Witty Logic,Space Books by Witty Logic,2019-07-24

This vintage NASA design features the original Apollo 11 mission crew patch and a panorama photo of the lunar surface with the Lunar Rover that was taken on the mission in 1969. This is a great notebook for nerds, science geeks, sci-fi fans, aerospace engineers,

astronomers, teachers, and students. Use this notebook as a journal, diary, or logbook. It's excellent for writing, planning, tracking, ideas, notes, lists, passwords, contacts, work, school, hobbies, and traveling. Product details: 7.44 x 9.69 Paperback 50 Sheets/100 Pages Wide Ruled Lined Paper Glossy Cover Celebrate the 50th anniversary of the moon landing on July 20th, 2019 and look forward to the Artemis mission in 2024. This retro design makes an awesome gift for aspiring astronauts, astronomy / space enthusiasts, and history buffs. Click Space Books by Witty Logic for more.

Lunar Surface Operations. Volume 4 National Aeronautics and Space Administration (NASA), 2018-07-08 The purpose of the project was to design a lunar rover trailer for exploration missions. The trailer was designed to carry cargo such as lunar geological samples, mining equipment and personnel. It is designed to operate in both day and night lunar environments. It is also designed to operate with a maximum load of 7000 kilograms. The trailer has a ground clearance of 1.0 meters and can travel over obstacles 0.75 meters high at an incline of 45 degrees. It can be transported to the moon fully assembled using any heavy lift vehicle with a storage compartment diameter of 5.0 meters. The trailer has been designed to meet or exceed the performance of any perceivable lunar vehicle. Shields, William and Feteih, Salah and Hollis, Patrick Unspecified Center...

Early Exploration of the Moon Tom Lund, 2018-12-26 Luna 2, launched by the USSR in 1959, was the first spacecraft from Earth to land on the moon. That first voyage was followed by increasingly capable lunar exploration spacecraft from Russia and the United States. A total of 36 successful lunar exploration missions were conducted from 1959 to the last Apollo manned exploration in 1972 and the final travels of the Lunokhod lunar rover in

1973. Of all the missions, that of Apollo 17 was the pinnacle of manned space exploration. Apollo 17 astronauts traveled 21 miles on the lunar surface in a dune buggy-type vehicle, stopping frequently to explore and gather samples. The spacecraft that enabled lunar exploration were ingenious, and reflected the best efforts of talented people working with the technology of the day. This book showcases the engineering involved in those incredible machines. The spacecraft covered, and their missions, are listed below. From the United States: • Ranger – Photography en route to lunar impact • Lunar Orbiter – Photography of front and back side of moon • Surveyor – Soft landing, photography, and soil analysis • Apollo – Manned exploration. Lunar Rover expanded range From the USSR: • Luna 2 – Photography en route to lunar impact • Luna 3 – Photography of back side of moon on flyby • Luna 9 and 13 – Soft landing, photography, and soil analysis • Luna 10, 11, 12, 14 – Photography from lunar orbit • Luna 16, 20, 24 – Soft landing, return of soil sample to Earth • Lunokhod-1, -2 – Lunar roving vehicle driven from Earth • L1 – Planned manned lunar flyby but only flew unmanned • L3 – Planned manned lunar landing but never flew to moon To tell the story of these spacecraft, Tom Lund draws on over 40 years' work on aircraft and spacecraft systems. He was technical lead for the landing radars for the Surveyor and Apollo spacecraft, and his practical experience is augmented by master's degrees in electrical engineering, physics, and business administration.

Design of a Day/night Lunar Rover Carnegie Mellon University. Robotics Institute, 1995
Abstract: The pair of lunar rovers discussed in this report will return video and state data to various ventures, including theme park and marketing concerns, science agencies, and educational institutions. The greatest challenge accepted by the design team was to enable

operations throughout the extremely cold and dark lunar night, an unprecedented goal in planetary exploration. This is achieved through the use of the emerging technology of Alkali Metal Thermal to Electric Converters (AMTEC), provided with heat from a [sic] innovative beta-decay heat source, Krypton- 85 gas. Although previous space missions have returned still images, our design will convey panoramic video from a ring of cameras around the rover. A six-wheel rocker bogie mechanism is implemented to propel the rover. The rovers will also provide the ability to safeguard their operation to allow untrained members of the general public to drive the vehicle. Additionally, scientific exploration and educational outreach will be supported with a user operable, steerable and zoomable camera.

Power Transmission by Laser Beam from Lunar-synchronous Satellite M. D. Williams,1993

Apollo Lunar Roving Vehicle Operations Handbook Nasa,2012 Developed in only 17 months at a cost of 38 million dollars, the 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.

Rovers Ruth Owen, 2014-12-15 What are rovers, and how do they safely land on and explore other planets? The answers to these questions and more are waiting for readers to discover as they explore the fascinating world of rovers. Readers are introduced to the stories of famous Mars rovers, including Spirit, Opportunity, and Curiosity. They learn who controls rovers, what discoveries rovers have made, and many other fun facts about these space vehicles. Fact boxes provide additional information, and eye-catching photographs allow readers to see rovers and the planets they explore up close.

Design of a Day/night Lunar Rover Carnegie-Mellon University. Robotics Institute, Peter

Berkelman,Jesse Easudes,Martin C. Martin,Eric Rollins,Jack Silberman,Deepak Bapna,Mei Chen,John Hancock,Andrew B. Mor,Alex Sharf,Tom Warren,1995 Abstract: The pair of lunar rovers discussed in this report will return video and state data to various ventures, including theme park and marketing concerns, science agencies, and educational institutions. The greatest challenge accepted by the design team was to enable operations throughout the extremely cold and dark lunar night, an unprecedented goal in planetary exploration. This is achieved through the use of the emerging technology of Alkali Metal Thermal to Electric Converters (AMTEC), provided with heat from a [sic] innovative beta-decay heat source, Krypton- 85 gas. Although previous space missions have returned still images, our design will convey panoramic video from a ring of cameras around the rover. A six-wheel rocker bogie mechanism is implemented to propel the rover. The rovers will also provide the ability to safeguard their operation to allow untrained members of the general public to drive the vehicle. Additionally, scientific exploration and educational outreach will be supported with a user operable, steerable and zoomable camera.

Red Rover Roger Wiens,2013-03-12 The principle investigator for the ChemCam instrument on the Curiosity rover and a scientist at Los Alamos National Laboratory, Wiens traces the ups and downs of the new era of robotic space exploration through his own experience working on some of the important projects over the past decade. His topics include from Minnesota to the moon, vindication, ticket to Mars, on the Rover, and seven minutes of terror. His account provides a framework for the images and data currently coming back from Curiosity.

Curiosity: The Story of a Mars Rover Markus Motum,2023-10-24 In his debut picture

book, Motum brings the story of NASA's beloved Mars rover Curiosity to life in vivid color. Full of eye-catching retro illustrations, this book is sure to fascinate budding space explorers and set inquisitive minds soaring. Full color.

Lunar Rover David Orme, 2009-01-02 Su is having a very bad first trip to the lunar surface; trapped at the bottom of a crater, miles away from base, and with dangers all around. This vibrant set of ten stories contains a range of action-packed content for reluctant readers, including predictive dreams, space and robot peril, computer games and cars coming to life, surfing, a haunted house, a jungle trek, and racing. These books are pitched at a low ability reading level of 7.5-8.5, but with content to engage readers anywhere between 8 and 14.

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Lunar Rover Introduction

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