

Nasa Space Shuttle Manual An Insight Into The Design Construction And Operation Of The Nasa Space Shuttle Haynes Owners Workshop Manuals

NASA Apollo 11The Astronaut Instruction ManualThe
Challenger Launch DecisionLunar Rover ManualThe
International Space StationThe History of Manned
Space FlightHypersonics Before the Shuttle: A Concise
History of the X-15 Research AirplaneSpace Shuttle
Technical ManualNASA Operations ManualRocket
Manual - 1942 onwardsNASA Mission AS-508 Apollo
13 Owners' Workshop ManualNASA Skylab Owners'
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HaynesSaturn V Flight ManualNASA Saturn I/IB Launch
Vehicles Owner's Workshop ManualThe Space Shuttle
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ManualApollo 13 Owners' Workshop ManualNASA
Voyager 1 & 2 Owners' Workshop Manual - 1977
onwards (VGR77-1 to VGR77-3, including Pioneer 10
& 11)Space ShuttleSpacecraftSoyuz Owners'
Workshop ManualNasa Space Shuttle Transportation
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ManualMir Hardware HeritageEnergiya-BuranSpace
Shuttle Missions Summary
(NASA/TM-2011-216142)NASA Space Shuttle
ManualNASA Mission AS-506 Apollo 11 Owners'
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SHUTTLEInternational Space StationSpace
ShuttleNASA Saturn V 1967-1973 (Apollo 4 to Apollo
17 & Skylab)To Orbit and Back Again

NASA Apollo 11

This absorbing book describes the long development of the Soviet space shuttle system, its infrastructure and the space agency's plans to follow up the first historic unmanned mission. The book includes comparisons with the American shuttle system and offers accounts of the Soviet test pilots chosen for training to fly the system, and the operational, political and engineering problems that finally sealed the fate of Buran and ultimately of NASA's Shuttle fleet.

The Astronaut Instruction Manual

Welcome Aboard! You are about to embark on a spectacular adventure, blazing a trail for future space travel in the world's greatest flying machine. Prepare for lift-off using the step-by-step instructions for launch and ascent. Soar into the sky consulting the authentic gatefold reproduction of the Shuttle's instrument panel. Operate the remote manipulator arm, the space telescope, and the data relay satellite as you communicate with ground control. Chart your space flight using the authentic fold-out orbital map. Hurtle back through the Earth's atmosphere to land the aircraft gently like a glider. Congratulations! We hope your mission is rewarding and fascinating!

Sincerely, Directorate for Crew Training Written for the layperson by curators at the National Air and Space Museum, with colorful illustrations throughout, THE SPACE SHUTTLE OPERATOR'S MANUAL takes the reader through all the motions of an actual mission -- from preparation to takeoff to orbit to re-entry.

The Challenger Launch Decision

Few launch vehicles are as iconic and distinctive as NASA's behemoth rocket, the Saturn V, and none left such a lasting impression on those who watched it ascend. Developed with the specific brief to send humans to the Moon, it pushed rocketry to new scales. Its greatest triumph is that it achieved its goal repeatedly with an enviable record of mission success. Haynes' Saturn V Manual tells the story of this magnificent and hugely powerful machine. It explains how each of the vehicle's three stages worked; Boeing's S-IC first stage with a power output as great as the UK's peak electricity consumption, North American Aviation's S-II troubled second stage, Douglas's workhorse S-IVB third stage with its instrument unit brain - as much a spacecraft as a rocket. From the decision to build it to the operation of its engines' valves and pumps, this lavishly illustrated and deeply informative book offers a deeper appreciation of the amazing Saturn V.

Lunar Rover Manual

The heritage of the major Mir complex hardware elements is described. These elements include Soyuz-

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TM and Progress-M ; the Kvant, Kvant 2, and Kristall modules ; and the Mir base block. Configuration changes and major mission events of Salyut 6, Salyut 7, and Mir multiport space stations are described in detail for the period 1977-1994. A comparative chronology of U.S. and Soviet/Russian manned spaceflight is also given for that period. The 68 illustrations include comparative scale drawings of U.S. and Russian spacecraft as well as sequential drawings depicting missions and mission events.

The International Space Station

The History of Manned Space Flight

Presents an electronic edition of the National Space Transportation System (NSTS) 1988 News Reference Manual. Includes information on such space shuttle-related topics as the space transportation system, orbiter manufacturing and assembly, solid rocket boosters, the external tank, the orbiter structure, crew equipment, space shuttle orbiter systems, the mission events summary, displays and controls, space transportation system payloads, NASA centers and responsibilities, and the space shuttle chronology. Provides Volume 2--Operations, with topics such as mission preparation and pre-launch operations, launch and flight operations, and landing.

Hypersonics Before the Shuttle: A Concise History of the X-15 Research Airplane

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This series examines the history and science of space exploration. It also delves into the careers and technological advancements associated with this exciting field of study.

Space Shuttle Technical Manual

A playfully-illustrated instruction manual for pre-teens that serves as a "how-to" guide for the first generation of interstellar explorers.

NASA Operations Manual

Full color publication. This document has been produced and updated over a 21-year period. It is intended to be a handy reference document, basically one page per flight, and care has been exercised to make it as error-free as possible. This document is basically "as flown" data and has been compiled from many sources including flight logs, flight rules, flight anomaly logs, mod flight descent summary, post flight analysis of mps propellants, FDRD, FRD, SODB, and the MER shuttle flight data and inflight anomaly list. Orbit distance traveled is taken from the PAO mission statistics.

Rocket Manual - 1942 onwards

NASA Mission AS-508 Apollo 13 Owners' Workshop Manual

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On July 20, 1969, US astronaut Neil Armstrong became the first man to walk on the moon. The Apollo 11 mission that carried him and his two fellow astronauts on their epic journey marked the successful culmination of a quest that, ironically, had begun in Nazi Germany thirty years before. This is the story of the Apollo 11 mission and the 'space hardware' that made it all possible. Author Chris Riley looks at the evolution and design of the mighty Saturn V rocket, the Command and Service Modules, and the Lunar Module. He also describes the space suits worn by the crew, with their special life support systems. Launch procedures are described, 'flying' the Saturn V, navigation, course correction 'burns', orbital rendezvous techniques, flying the LEM, moon landing, moon walk, take-off from the moon, and earth re-entry procedure. Includes performance data, fuels, biographies of Armstrong, Aldrin and Collins, Gene Kranz and Werner von Braun. Detailed appendices cover all of the Apollo missions, with full details of crews, spacecraft names and logos, mission priorities, moon landing sites, and the Lunar Rover.

NASA Skylab Owners' Workshop Manual

The world-famous Apollo 13 mission and dramatic explosion on the service module, captured in technical detail like you've never seen before. On April 13, 1970, NASA's Apollo 13 suffered a near-catastrophic explosion in space. The planned lunar landing that day was promptly called off, and a new challenge prioritized: get the spacecraft safely back to Earth. Written by David Baker, an original member of

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NASA's Apollo 13 Houston Mission Control team, Apollo 13 Owners' Workshop Manual offers unprecedented, meticulous coverage of the Apollo 13 mission. Beginning with an overview of the era's equipment and technology, Baker focuses primarily on the planning, goals, and execution of the mission itself, including an hour-by-hour timeline of the crew's near-disaster in space. Additionally, his thorough analysis of the post-flight investigation and lurking design problems with the spacecraft offer the rare viewpoint of a true Apollo 13 insider. Not only does Baker present and analyze the mission itself, but he also celebrates NASA's legacy in the wake of the event with the redesign of sections of the Apollo spacecraft and the changes to the way later missions were organized, beginning with Apollo 14. In typical fully illustrated Haynes Manual detail, Apollo 13 Owners' Workshop Manual presents the fascinating circumstances behind a team who recovered their spacecraft just hours before hurtling back into the earth's atmosphere. But more than that, the book is a brand-new insight into the remarkable story of how clever, improvised engineering, remarkable teamwork, and sheer will to succeed averted a major catastrophe in space.

The International Space Station

The Rocket Manual tells the story of rocket motors, how they were first developed, how they work, what they are used for and how they are operated. It also explains the origin and operating record of satellite launchers around the world. Rocket motors large and

small are listed and explained, including small motors used to push satellites and spacecraft into different orbits, throttleable rockets for controlling spacecraft descending to the Moon and the surfaces of other planets, restartable motors for adjusting orbits and reusable motors such as those developed for the Shuttle.

Moon Manual

Looks at the operations of the International Space Station from the perspective of the Houston flight control team, under the leadership of NASA's flight directors, who authored the book. The book provides insight into the vast amount of time and energy that these teams devote to the development, planning and integration of a mission before it is executed. The passion and attention to detail of the flight control team members, who are always ready to step up when things do not go well, is a hallmark of NASA human spaceflight operations. With tremendous support from the ISS program office and engineering community, the flight control team has made the International Space Station and the programs before it a success.

Strategic Nuclear Weapons

Spacecraft takes a long look at humankind's attempts and advances in leaving Earth through incredible illustrations and authoritatively written profiles on Sputnik, the International Space Station, and beyond. In 1957, the world looked on with both uncertainty

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and amazement as the Soviet Union launched Sputnik 1, the first man-made orbiter. Sputnik 1 would spend three months circling Earth every 98 minutes and covering 71 million miles in the process. The world's space programs have traveled far (literally and figuratively) since then, and the spacecraft they have developed and deployed represent almost unthinkable advances for such a relatively short period. This ambitiously illustrated aerospace history profiles and depicts spacecraft from Sputnik 1 through the International Space Station, and everything in between, including concepts that have yet to actually venture outside the Earth's atmosphere. Illustrator and aerospace professional Giuseppe De Chiara teams up with aerospace historian Michael Gorn to present a huge, profusely illustrated, and authoritatively written collection of profiles depicting and describing the design, development, and deployment of these manned and unmanned spacecraft. Satellites, capsules, spaceplanes, rockets, and space stations are illustrated in multiple-view, sometimes cross-section, and in many cases shown in archival period photography to provide further historical context. Dividing the book by era, De Chiara and Gorn feature spacecraft not only from the United States and Soviet Union/Russia, but also from the European Space Agency and China. The marvels examined in this volume include the rockets Energia, Falcon 9, and VEGA; the Hubble Space Telescope; the Cassini space probe; and the Mars rovers, Opportunity and Curiosity. Authoritatively written and profusely illustrated with more than 200 stunning artworks, *Spacecraft: 100 Iconic Rockets, Shuttles, and Satellites That Put Us in Space* is sure to become a

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definitive guide to the history of manned space
exploration.

John Haynes

On 20 July 1969, US astronauts Neil Armstrong and Buzz Aldrin became the first men to walk on the moon. NASA Mission AS-506 Apollo 11 Owners' Workshop Manual is the story of the Apollo 11 mission and the 'space hardware' that made it all possible. This manual looks at the evolution and design of the mighty Saturn V rocket, the Command and Service Modules, and the Lunar Module. It describes the space suits worn by the crew and their special life support and communications systems. We learn about how the Apollo 11 mission was flown - from launch procedures to 'flying' the Saturn V and the 'LEM', and from moon walking to the earth re-entry procedure. This new edition of the book celebrates the 50th Anniversary of the Apollo 11 moon landing.

Saturn V Flight Manual

The Saturn I and IB series of rockets fulfilled plans developed in the late 1950s to build a rocket which could triple the existing thrust levels of US rockets and equal the lifting capacity of the Soviet Union, launching satellites and spacecraft weighing more than 10 tonnes into Earth orbit and do it by the early 1960s. These rockets emerged from the work carried out by former V-2 technical director Wernher von Braun, working at the Army Ballistic Missile Agency in Huntsville, Alabama. Three times more powerful than

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anything launched by America to that date, with a cluster of eight rocket motors for the first stage, the first Saturn I flew on October 27, 1961, and propelled America into the heavy-lift business. It was the Saturn I, and its successor the Saturn IB, with a more powerful second stage, that did all the preparatory work getting NASA ready to put men on the Moon. Between 1961 and 1975, the 19 flights of the Saturn I and IB achieved several historic "firsts", launching the world's first high-energy liquid oxygen/liquid hydrogen upper stages into orbit in 1964, the first unmanned test of suborbital and orbital Apollo spacecraft in 1966, the first unmanned test of the Lunar Module in 1968, the first manned Apollo spacecraft Apollo 7 also in 1968, all three Skylab flights in 1973 and the last Apollo spacecraft flown in support of the Apollo-Soyuz Test Project in 1975.

NASA Saturn I/IB Launch Vehicles Owner's Workshop Manual

Follows the development of the Mercury, Gemini, Apollo, Vostok, and Soyuz space programs and describes the contributions of scientists, astronauts, and politicians to the space effort

The Space Shuttle Operator's Manual

The Space Shuttle Transportation System Manual provides a highly detailed overview of the components that made up the Space Shuttle program. Created in 1984 for NASA by prime contractor Rockwell International, this book was

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intended as a highly readable, easy-to-understand reference for members of the press and corporate clients. The 600+ page text features hundreds of technical diagrams and photographs, an overview of the Shuttle program, and detailed sections on spacecraft structures, spacecraft systems and payloads. Spacecraft structures chapters includes information about the orbiter, propulsion systems, external boosters, external tank and payload deployment. Spacecraft systems chapters include discussions of the thermal protection system, orbital maneuvering system, reaction control system, electrical power and life support systems, communications, avionics, landing gear and more. Additional chapters provide background concerning the development and testing of the shuttles, and payloads such as Spacelab, the Payload Assist Module and Space Telescope. Despite the tragedies that resulted in the loss of two of the spacecraft, the Space Shuttle program was a highly successful one that facilitated the construction of the International Space Station, deployment and service of the Hubble Space Telescope, and produced many other significant milestones. This book sheds light in particular into the first few years of the spacecraft's spectacular three decade service life (1981-2011) and lays out many goals for the STS, many of which were fulfilled and some which were not. A highly complete, detailed look inside the spacecraft, how it was designed, built and operated, this book remains one of the best Space Shuttle references available, and one no space flight enthusiast should be without."

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NSTS 1988 News Reference Manual
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The book begins with early ideas about astronauts in science fiction and film portrayals of the role. It goes on to cover recruitment and the application process to become an astronaut with NASA and ESA, and the qualifications and fitness required for various astronaut roles. The reader is taken through training for different types of astronaut roles (pilot, scientist, payload specialist, space walker, Moon walker, etc) and the different types of missions are described (sub-orbital, Earth orbit, living aboard the International Space Station (ISS), lunar flight and landing, driving on the Moon, and planned future missions to asteroids and Mars). The equipment used by astronauts is documented, including clothing, space suits, tools, backpacks, zero-gravity toilets, food stations, etc. The experience of space flight on typical missions is outlined, illustrated by the accounts of real astronauts on actual flights - the experience of launch, first reactions to Zero-G, exiting the hatch for a spacewalk, the views of Earth, walking on the Moon, and re-entering the Earth's atmosphere. The book is written in a style accessible to the layperson, while including sufficient technical details to satisfy more knowledgeable readers. It also captures the excitement and wonder of spaceflight, making extensive use of astronaut biographies and interviews to uncover the real human experience, as much as technical information to provide detail to satisfy those curious about 'how it works'.

Apollo 13 Owners' Workshop Manual

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Much misinformation has been published by those who support, as well as those who are against, the continued deployment of nuclear weapons as instruments of deterrence. This book provides an apolitical description of strategic nuclear weapons, how they are designed, how they work, and how they are assigned to different targets in the event of conflict. As well as a Workshop Manual, this book would be a guide to public understanding expressed in a dispassionate and factual manner for information which many people find hard or impossible to obtain. Nuclear weapons do exist, and they cannot be wished away, and because of that, an entirely fact-based and balanced account is helpful to those who seek to understand this emotively sensitive subject delivered as a seminal reference. This book incorporates a balance of cutaway diagrams, images of hardware and test equipment, facilities and delivery systems, and traces the evolution of nuclear weapons over the past 70 years, with the emphasis on strategic nuclear delivery systems today.

NASA Voyager 1 & 2 Owners' Workshop Manual - 1977 onwards (VGR77-1 to VGR77-3, including Pioneer 10 & 11)

Space Shuttle

Voyager 1 has recently crossed the boundary of our solar system and passed into interstellar space, and Voyager 2 is likely to follow suit, on a different path, between 2016 and 2017. The two Voyager probes will

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continue to transmit details of discoveries beyond our
solar system until at least 2020.

Spacecraft

Discusses the social impact of the crash and analyzes the NASA decision making process.

Soyuz Owners' Workshop Manual

Continuing the popular Haynes Owners' Workshop Manual space series, which currently comprises 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.

Nasa Space Shuttle Transportation System Manual

The Space Shuttle has been the dominant machine in the U.S. space program for thirty years and has

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generated a great deal of interest among space enthusiasts and engineers. This book enables readers to understand its technical systems in greater depth than they have been able to do so before. The author describes the structures and systems of the Space Shuttle, and then follows a typical mission, explaining how the structures and systems were used in the launch, orbital operations and the return to Earth. Details of how anomalous events were dealt with on individual missions are also provided, as are the recollections of those who built and flew the Shuttle. Many photographs and technical drawings illustrate how the Space Shuttle functions, avoiding the use of complicated technical jargon. The book is divided into two sections: Part 1 describes each subsystem in a technical style, supported by diagrams, technical drawings, and photographs to enable a better understanding of the concepts. Part 2 examines different flight phases, from liftoff to landing. Technical material has been obtained from NASA as well as from other forums and specialists. Author Davide Sivoletta is an aerospace engineer with a life-long interest in space and is ideally qualified to interpret technical manuals for a wider audience. This book provides comprehensive coverage of the topic including the evolution of given subsystems, reviewing the different configurations, and focusing on the solutions implemented.

The Worm

The Soyuz spacecraft played a major role in Russia's plans for a manned landing on the Moon and several

test models were flown at the height of the "space race". Originally designed for circumlunar flight, Soyuz has been the mainstay of Russia's space program.

NASA Moon Missions Operations Manual

There is renewed interest in the Moon in recent years, with the news that a Chinese lunar rover landed on the Moon in January 2014, and NASA announcing that it is looking for private partners to land a robot on the Moon's surface, as the first step in a programme to exploit the commercial opportunities offered by the Moon. Recent lunar expeditions by both orbiting spacecraft and 'landers' have uncovered far more detail about the Moon's surface and geology, including the trail of Neil Armstrong's first walk on the Moon in 1969. This manual explains in simple and straightforward terms, with a wealth of illustrations and photographs, what we have discovered about the Moon over the centuries, along with a general overview of the vehicles involved in the exploration.

The United States Government Manual

The International Space Station (ISS) is a permanently manned earth-orbiting complex where astronauts carry out research into a wide range of scientific activities. It comprises modules built in the USA, Russia, Europe, Japan and Canada. Author David Baker examines how the ISS was built, the logistics modules and freighters operated by its user nations, how the ISS works as an integrated facility, life on board, what the ISS does, the research carried out

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and who benefits.

Mir Hardware Heritage

Provides schematic diagrams and photographs of various components of the space shuttle system, and chronicles the development of reusable spacecraft from the designs of Nazi rocket scientists to versions currently under discussion.

Energiya-Buran

Designed between 1969 and 1972 and first flown into space in 1981, the NASA Shuttle will have flown almost 140 missions by the time it is retired in 2011. David Baker describes the origin of the reusable launch vehicle concept during the 1960s, its evolution into a viable flying machine in the early 1970s, and its subsequent design, engineering, construction, and operation. The Shuttle's internal layout and systems are explained, including the operation of life support, electrical-power production, cooling, propulsion, flight control, communications, landing, and avionics systems.

Space Shuttle Missions Summary (NASA/TM-2011-216142)

NASA Space Shuttle Manual

Due to this collection's heavy weight (18 lbs) non-standard shipping costs apply. See shopping cart for

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details. During 30 years and 135 missions, the U.S. space shuttle carried more crewmembers to orbit than all other launch systems, from all other countries combined, and carried more than 4.5 million pounds of payload to orbit. It was a staggering record of success. Unfortunately, it was accompanied by a tragic record of failure, with two accidents claiming the lives of 14 astronauts as well as other incidents claiming several ground personnel. But, as Richard Truly, an astronaut and NASA administrator, once said, "Flying in space is a bold business. We cannot print enough money to make it totally risk-free." This assertion was not meant as an excuse, simply a statement of fact regarding the physics of space travel and the dangers of chemical rockets. Because it flew for 30 years, most people alive today do not remember a time when the space shuttle was not in the news. The public was enthralled, the politicians somewhat less, and the armchair critics even less so. The space shuttle was meant as a stepping-stone to broader exploration. But the funding and political will never materialized, leaving the vehicle with little meaningful work for most of its flight campaign. Nevertheless, the space shuttle launched a variety of commercial and military satellites, planetary probes to Venus and Jupiter, and three of the four NASA Great Observatories, including the pièce de résistance, the Hubble Space Telescope. Only near the end was it able to demonstrate its intended purpose, building a space station. Even that, when finished, was only a shell of what had been envisioned when the space shuttle was approved. Unfortunately, having found its stride as the primary support vehicle for the International Space Station, the White House

canceled the program, leaving the United States without the ability to launch people to orbit. All of this has left an uncertain legacy for one of the most visible engineering achievements of the 20th Century. This book is not meant to establish that legacy, but to thoroughly document the development, technology, and, to a lesser extent, the flight campaign. We will leave it to future historians to determine the ultimate worthiness of the program. What we can say for certain, though, is that it was one hell of a ride.

NASA Mission AS-506 Apollo 11 Owners' Workshop Manual

Astronaut

Published to coincide with the 50th anniversary of the first Moon landing by Apollo 11. This book concludes the story of the Apollo project, detailing all the engineering developments made and the research carried out during the manned Moon missions. NASA Moon Missions Operations Manual completes the story of US manned spaceflight to date, completing the series of Haynes Manuals including: Mercury, Gemini, Apollo 11, Apollo 13, Lunar Rover, Saturn V, Space Shuttle, International Space Station and Skylab.

DEVM SPACE SHUTTLE

This book will provide for the first time a comprehensive manual on how NASA works and operates its programmes, opening the door to the

general reader, and the visitor to NASA facilities, a directory of information on what to find, what to see and how it all fits together. This book avoids the detail on specific programmes and projects - these are already adequately covered in dedicated Haynes Workshop Manuals. Instead, it focuses on what exists at the various facilities across the United States and the technical parameters of their equipment and laboratory assets.

International Space Station

Designed by Wernher von Braun and Arthur Rudolph at NASA's Marshall Space Flight Center, the Saturn V rocket represents the pinnacle of 20th Century technological achievement. The only launch vehicle in history to transport astronauts beyond Low Earth Orbit, the Saturn V delivered 24 men to the moon. To this day it holds records as the tallest (363 feet), heaviest (nearly 7 million lbs.) and most powerful (over 7.6 million pounds-force of thrust) launch vehicle ever produced. It also remains one of the most reliable, achieving 12 successful launches with one partial failure - the unmanned Apollo 6 which suffered vibration damage on lift-off, resulting in a sub-standard orbit. The Saturn series of rockets resulted from Von Braun's work on the German V-2 and Jupiter series rockets. The Saturn I, a 2-stage liquid-fueled rocket, flew ten times between 1961 and 1965. An updated version the 1B carried the first crewed Apollo flight into orbit in 1968. The Saturn V, which first flew in 1967, was a three-stage rocket. The first stage, which burned RP-1 and LOX, consisted of

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five F-1 engines. The second stage used five J-2 engines which burned LOX and liquid hydrogen (LH2). The third stage, based on the second stage of the Saturn 1B, carried a single J-2. The Saturn V could carry up to 262,000 pounds to Low Earth Orbit and more critically, 100,000 pounds to the Moon. Created by NASA as a single-source reference as to the characteristics and functions of the Saturn V, this manual was standard issue to the astronauts of the Apollo and Skylab eras. It contains information about the Saturn V system, range safety and instrumentation, monitoring and control, prelaunch events, and pogo oscillations. It provides a fascinating overview of the rocket that made "one giant leap for mankind" possible.

Space Shuttle

NASA Saturn V 1967-1973 (Apollo 4 to Apollo 17 & Skylab)

Skylab has a fascination among space professionals and enthusiasts alike and a book on the engineering and design of this space station has been argued for in blogs and chat rooms for many years. No other book has yet been published which describes the technical, design and engineering details of how Skylab was built and operated. There have been several biographies by astronauts relating their experiences on Skylab missions, but no comparable book on the technical aspects of this extraordinary programme.

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