

Apollo 13 Owners Workshop Manual An Engineering Insight Into How Nasa Saved The Crew Of The Failed Moon Mission

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Astute Class Nuclear Submarine - Jonathan Gates 2017-04-11

The Astute-class is the largest, most advanced and most powerful attack submarine ever operated by the Royal Navy, combining world-leading sensors, design and weaponry in a versatile vessel. The submarines are nuclear-propelled and fuelled by a nuclear reactor powerful enough to supply a city the size of Southampton. Its advanced technology means the submarines will never need to be refuelled. They employ the latest technology such as the Sonar 2076 that detects the sound of enemy submarines using the largest number of hydrophones ever fitted to a submarine. Linked with powerful onboard electronics these provide the submarines with outstanding sensitivity. The Astute submarines are armed with the latest versions of Spearfish heavy-weight torpedoes and Tomahawk land-attack cruise missiles.

NASA Moon Missions Operations Manual - David Baker 2019-06-25
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.

Apollo 13 Manual - David Baker 2013

On the 13th of April 1970, Apollo 13 suffered an explosion. The planned lunar landing was instantly called off and the new challenge was to get the spacecraft back to Earth. Only hours before hurtling back into the atmosphere did they power up Apollo again - not knowing if it had been fatally damaged in the explosion. Here is the story of how a potential disaster became NASA's finest hour

NASA Space Shuttle Manual - David Baker 2011-04-18

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.

Captain Scarlet Manual - Sam Denham 2017-10-10

Following the success of the Haynes Thunderbirds Manual, the same author/illustrator team turn their attention to Captain Scarlet, another iconic sci-fi creation of the late Gerry Anderson. This fascinating manual is a technical guide to Spectrum, the global security service of 2068, and features background information, a history of its creation, profiles of leading agents, confidential details of Spectrum's most valuable weapon in the fight against the Mysterons, and fully annotated cutaway drawings of Spectrum vehicles. The book finishes with comprehensive Mission Files, making it the complete and essential manual for all Spectrum Agents.

NASA Apollo 11 - Christopher Riley 2010-01-01

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.

Servitization and Physical Asset Management - Michael John Provost 2018-12-31

Servitization and Physical Asset Management, third edition, was developed to provide a structured source of guidance and reference information on the business opportunities linked to servitization and the management of physical assets. A growing trend in the global economy, servitization focuses on the actual deliverables of an asset from the perspective of the customer: electricity instead of the power plant, thrust instead of the engine, mobility instead of a plane or a car. The book offers high-level overviews of how to servitized and manage assets from a variety of perspectives, reviewing nearly 1,500 books, magazine articles, papers and presentations and websites. Written by Michael J. Provost, Ph.D., and a subject matter expert in modeling, simulation, analysis and condition monitoring, Servitization and Physical Asset Management, third edition, is an invaluable reference to those considering providing asset management services for the products they design and manufacture. It is also meant to support middle management wishing to know what needs to be done to look after the assets they are responsible for and who to approach for help, and academics doing research in this field. Michael Provost, is a British engineer with a doctoral degree in thermal power from Cranfield University.

Nasa Lost Missions Operations Manual - 2020

The Saturn V F-1 Engine - Anthony Young 2019-02-19

When the mighty Rocketdyne F-1 engine was conceived in the late 1950s for the U.S. Air Force, it had no defined mission and there was no launch vehicle it could power. It was a bold concept to push the technological envelope of rocket propulsion in order to put massive payloads into Earth orbit. Few realized at the time that the F-1 would one day propel American astronauts to the Moon. In The Saturn V F-1 Engine, Anthony Young tells the amazing story of unbridled vision, bold engineering, explosive failures during testing, unrelenting persistence to find solutions, and ultimate success in launching the Saturn V with a 100 percent success rate. The book contains personal interviews with many Rocketdyne and NASA personnel involved in the engine's design, development, testing and production; is lavishly illustrated with black-and-white and color photographs, many never previously published is the first complete history of the most powerful rocket engine ever built. The F-1 engine remains the high point in U.S. liquid rocket propulsion - it represents a period in American history when nothing was impossible.

Apollo 13 - Laura B. Edge 2020-03-03

"Houston, we've had a problem." On April 13, 1970, the three astronauts aboard the Apollo 13 spacecraft were headed to the moon when a sudden explosion rocked the ship. Oxygen levels began depleting rapidly. Electrical power began to fail. Astronauts James Lovell, Jack Swigert, and Fred Haise were about to be stranded in the inky void of outer space. The mission to the moon was scrapped. Now, Apollo 13's only goal was to bring the crew home. With the damaged spacecraft hurtling towards the moon at roughly six thousand miles per hour, there was little hope of success. But the astronauts and mission control were fully

prepared to do whatever it took to return the crew to Earth. This space disaster occurred at the peak of the United States' Space Race against the Soviet Union. But for four days in 1970, the two nations put aside their differences, and the entire world watched the skies, hoping and praying the astronauts would return safely. As missions to Mars and commercial space flight become a reality, the time is now to be reminded of our common humanity, of how rivals can work together and support each other towards a shared goal. Because no matter what happens or where we travel, we all call Earth home.

Military Jeep - Pat Ware 2011-01-01

The Jeep was the primary light four-wheel-drive vehicle of the US Army and allies during the Second World War and the post-war period. It was originally designed to meet a 1940 US Army specification, and over 600,000 examples were built in both Ford and Willys forms. The Jeep saw service all over the world, and a healthy number of restored authentic military examples can still be seen today in the hands of enthusiasts. This book provides a brief history of this iconic vehicle, and a fascinating behind-the-scenes insight into what is involved in restoring, operating and maintaining a Jeep today, 70 years after the prototype first appeared.

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."

How Apollo Flew to the Moon - W. David Woods 2011-08-08

Stung by the pioneering space successes of the Soviet Union - in particular, Gagarin being the first man in space, the United States gathered the best of its engineers and set itself the goal of reaching the Moon within a decade. In an expanding 2nd edition of How Apollo Flew to the Moon, David Woods tells the exciting story of how the resulting Apollo flights were conducted by following a virtual flight to the Moon and its exploration of the surface. From launch to splashdown, he hitches a ride in the incredible spaceships that took men to another world, exploring each step of the journey and detailing the enormous range of disciplines, techniques, and procedures the Apollo crews had to master. While describing the tremendous technological accomplishment involved, he adds the human dimension by calling on the testimony of the people who were there at the time. He provides a wealth of fascinating and accessible material: the role of the powerful Saturn V, the reasoning behind trajectories, the day-to-day concerns of human and spacecraft health between two worlds, the exploration of the lunar surface and the sheer daring involved in traveling to the Moon and the mid-twentieth century. Given the tremendous success of the original edition of How Apollo Flew to the Moon, the second edition will have a new chapter on surface activities, inspired by reader's comment on Amazon.com. There will also be additional detail in the existing chapters to incorporate all the feedback from the original edition, and will include larger illustrations.

Three Sigma Leadership - Steven R. Hirshorn 2022-09-06

Congratulations on being selected as a Chief Engineer! You've been handed tremendous responsibilities and your success will play a huge role in achieving NASA's mission. Now what? Three Sigma Leadership is a practical guide through the challenges of leadership. It provides an overview of twenty-four key leadership skills, each described fully and backed with relevant real-life experiences from the author's career. NASA sets the bar high for its Chief Engineers, and Three Sigma Leadership explains those expectations in straightforward terminology. Each chapter provides familiar surroundings for engineers and speaks in their language, but also lays out the higher standard of leadership skills necessary to perform the job of a Chief Engineer.

Lunar Rover Manual - Christopher Riley 2012-12-01

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.

Virtual Apollo - Scott P. Sullivan 2002

With this book readers can become acquainted with the Apollo spacecraft in detail and learn the story of its design and construction.

Star Wars TIE Fighter Manual - Ryder Windham 2019-04-25

Boeing 747 Owners' Workshop Manual - Chris Wood 2012-09-15

When the Boeing 747 first flew commercially in 1970, it ushered in a new era of affordable air travel. Often referred to by the nickname "Jumbo Jet," the 747 was the world's first wide-body commercial airliner, and its advent has proved to be one of the major milestones in aviation history. The centerpiece of this Haynes Manual is the 747-400, which is the most numerous version. As well as being the bestselling model in the 747 family, there are more 400s currently in service than any other model of this mighty jumbo.

NASA Skylab Owners' Workshop Manual - David Baker 2018-03-13
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.

Apollo 13 Owners' Workshop Manual - David Baker 2013-10-03

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 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 - David Baker 2017-08-01

Mars is one of the most explored planets in the solar system. Machines called probes and rovers gather photographs and information from Mars to be sent to Earth. Learn more in Journey to Mars, one of the titles in the All About Space Science series. 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.

Moon Manual - David M Harland 2016-04-15

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.

NASA Mercury - 1956 to 1963 (all models) - David Baker 2017-06-15
Full coverage of the design, engineering, development and flight operations of NASA's Mercury spacecraft, which in addition to several unmanned tests supported two piloted ballistic sub-orbital flights in 1961 and four piloted orbital flights between 1962 and 1963. The Mercury programme bridged the gap between the hypersonic X-15 and the two-man Gemini spacecraft, which in turn led to the Apollo spacecraft. **MERCURY - AMERICA'S FIRST PILOTED SPACECRAFT 1958-1963** completes the Haynes Workshop manual series of US and Russian piloted space vehicles and serves as a precursor to a possible Hynes Workshop Manual on the NASA Orion deep-space exploration vehicle scheduled to fly in 2018 on the Space Launch System, the world's biggest rocket. The emphasis in the book will be on describing the design, engineering and technology of the Mercury spacecraft rather than on the missions, which are comprehensively covered in several previously published books. In this way the Workshop Manual brand line is maintained as a reference to the way machines are built and operated.

Astronaut - Ken MacTaggart 2017-02-01

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'.

NASA Mission AS-508 Apollo 13 Owners' Workshop Manual - David Baker 2020-03-19

Rocket Manual - 1942 onwards - David Baker 2015-01-20

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.

NASA Saturn I/IB Launch Vehicles Owner's Workshop Manual - Dr. David Baker 2020-08-25

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 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.

The First Men on the Moon - David M. Harland 2007-10-14

This book tells the story of Apollo 11 and dispels the myth that NASA faked the moon landings. The story is brought to life by exploiting the flight plan, mission report, in-flight transcripts (including conversations among the crew in the spacecraft that were not transmitted) and post-flight debriefing. It features scans recently produced by NASA of the original Hasselblad film. The final chapters discuss what was learned of the moon rocks, and reviews the follow-on missions. The author's impressive expertise and knowledge of the Moon landings shines through and seamlessly unites the myriad details of the mission.

THE APOLLO MOON MISSIONS - Randy Walsh 2019-09-18

As a child I was fascinated by the Apollo Moon missions. As I got older the fascination never waned, until, approximately 15 years ago, I happened to watch a documentary on one of the Apollo missions. In that they discussed the method used for circumnavigating the Moon during the missions. As a trained pilot I remember questioning that method of navigation and from there I started to doubt the validity of the Apollo Moon missions itself, which led to subsequent years of research. This book is culmination of that research and the reasons why I believe that the Apollo Moon missions were faked. Included in Part 1 of this series I discuss the following key factors: □ The Saturn V rocket and the fraudulent claims on the powerful F-1 engines, without which the Apollo landings could not have taken place. □ The non-existent capabilities of the Apollo guidance computer and the fact that this computer was a fake. □ The conflicting and contradictory information regarding the radiation intensity between the Earth and Moon which would have prevented any manned lunar landing. □ The inadequate shielding for both the Command Module and Lunar Module which would have ended any manned mission outside of Low Earth Orbit in a matter of minutes if not seconds. □ And the incomplete, missing and/or destroyed documents along with the thousands of missing reels of telemetry tapes containing data that has been 'lost' forever

Ferguson TE-20 Tractor Manual - Pat Ware 2011-06-01

The Ferguson TE-20 is the most iconic of all tractors - the small, unobtrusive grey tractor which many people will recognize. The TE-20 replaced the horse on many farms after WWII, and paved the way for the mechanization of farming. Over 500,000 examples were built and sold all over the world, with US- and French-built models manufactured under license.

Convair B-36 Peacemaker Manual - David Baker 2018-12-04

With six powerful 2,500hp Pratt & Whitney radial engines, the B-36 was the largest aircraft ever to enter volume production, joining the US Air Force in 1948 as the world's first operational bomber with hemispheric range. Two years later the type got an additional four engines, turbojets paired in pods attached to pylons outboard of the six propeller engines. At 230 ft (70.1m) it boasted the longest wingspan of any combat aircraft ever built. Thus did the ten-engine behemoth, capable of carrying five times the standard bomb load of Britain's Second World War Avro Lancaster, become the powerful tool for potential nuclear retaliation against aggressors anywhere on Earth. Ranging across Soviet skies high above the maximum altitude of Russian fighters, it threatened a reign of fire unchallenged by any other air arm in the world. The B-36 was developed further into a powerful tool for photographic reconnaissance and served as a valuable means by which the US Air Force could obtain detailed maps of areas across the Soviet Union where little was known about the exact location of towns, cities and industrial facilities - potential key targets in time of war. The B-36 scored as the most powerful delivery system in the US arsenal for waging nuclear war, only being retired when the much faster Boeing B-52 came along and when intercontinental ballistic missiles were first deployed at the end of the 1950s. The Haynes Convair B-36 Manual brings to the reader a highly detailed design, technical and engineering description of the aircraft, its structure and systems across the several different variants deployed with the US Air Force Strategic Air Command. Author David Baker covers the origin and evolution of the B-36, but primarily he explains how the aircraft worked, how it was operated, how it was serviced and where the various items of equipment were installed. It also provides technical details of the variants produced, including information on dimensions, weight, performance, etc, and also on the units with which the aircraft served. The text is supported by more than 300 photographs and illustrations.

International Space Station - David Baker 2016-02-01

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 and who benefits.

NASA Saturn V 1967-1973 (Apollo 4 to Apollo 17 & Skylab) - David Woods 2016-08-01

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.

NASA Hubble Space Telescope - 1990 onwards (including all upgrades) - David Baker 2015-07-15

The Hubble Space Telescope is an international venture primarily between the USA and Europe. More than any other space project, Hubble has encouraged an expanding interest in popular astronomy. With stunning views of the cosmos, it has inspired a new generation of enthusiasts to study the night sky through simple telescopes or in books. As such it has linked space technology with popular interest in astronomy and has thrilled specialists and the lay public alike.

Soviet T-34 Tank Manual - Mark Healy 2018-02-06

The Soviet T-34 was one of the finest tanks of the Second World War and the mainstay of Soviet armoured units throughout the war. Most nations underestimated the scale and quality of Soviet tank production before the Second World War and the Germans were no exception. They were certainly not prepared for the T-34, which they encountered during Operation Barbarossa (the German invasion of Russia) in 1941. Its combination of firepower, mobility, protection, and ruggedness led German Panzer General Paul von Kleist at the time to call it "The finest tank in the world." Another legendary Panzer tactician and general, Heinz Guderian, also confirmed the T-34's "vast superiority" over existing German armour of the period.

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.

Royal Navy Type 45 Destroyer Manual - 2010 onward - Jonathan Gates 2014-12-01

The Haynes Manual on the Type 45 'Daring' is the first modern warship to be covered within manual form. It includes the story of the development, trials and entry into Royal Navy service of the Type 45, the anatomy of the Type 45, its propulsion system, radar command and control systems, weapons systems, and the captain and executive officer's views. The Type 45 'Daring' class is the largest and most powerful air defense destroyer class ever operated by the Royal Navy and the largest general purpose surface warship (excluding aircraft carriers and amphibious ships) to join the fleet since the Second World War cruisers. Author Jonathan Gates describes the development, trials and entry into Royal Navy service of the Type 45, the anatomy of the vessel, its propulsion system, radar command and control systems, weapons systems, and how the ship is operated at sea. The book is officially licensed with the Royal Navy.

Virtual LM - Scott P. Sullivan 2004

A pictorial history of the lunar module developed during the Apollo programs offers color photographs and diagrams of everything from switches and panels to the entire module, along with additional text, an operations handbook, activation checklist, and other items on the accompanying CD-ROM.

Failure Is Not an Option - Gene Kranz 2009-06-23

The author, flight director in NASA's Mission Control, tells of the challenges in space flight from the very early years to the current time and of "his own bold suggestions about what we ought to be doing in space now."--Jacket.

Engineering - Unesco 2010-01-01

This report reviews engineering's importance to human, economic, social and cultural development and in addressing the UN Millennium Development Goals. Engineering tends to be viewed as a national issue, but engineering knowledge, companies, conferences and journals, all demonstrate that it is as international as science. The report reviews the role of engineering in development, and covers issues including poverty reduction, sustainable development, climate change mitigation and adaptation. It presents the various fields of engineering around the world and is intended to identify issues and challenges facing engineering, promote better understanding of engineering and its role, and highlight ways of making engineering more attractive to young people, especially women.--Publisher's description.