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Managing NASA in the Apollo Era
Crash course
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A Passion for Space
Launch Vehicle Design Process: Characterization, Technical Integration, and Lessons Learned
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lessons learned from accidents involving remotely piloted and autonomous aircraft
NASA technical note
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SKYLAB, 1973-1974
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Computers Take Flight: A History of NASA's Pioneering Digital Fly-By-Wire Project
Scientific and Engineering Legacies of the Space Shuttle 1971-2010

An Assessment of Space Shuttle Flight Software Development Processes
Preparing for the High Frontier
The NASA History of Skylab
Redefining the Right Stuff
NASA System Safety Handbook
The NASA Mission Reports
The Final Flight of Shuttle Columbia
CubeSat Handbook
Apollo 11 Flight Plan
A History of Project Gemini
Flight Instruction Manual
Living and Working in Space
A Simulation Model for Probabilistic Analysis of Space Shuttle Abort Modes
The Apollo Spacecraft
Space Shuttle Missions Summary (NASA/TM-2011-216142)
Apollo by the Numbers
The Role and Training of NASA Astronauts in the Post-Space Shuttle Era
The Birth of NASA
Hearings, Ninetieth Congress, Second Session, on H.R. 15086 (superseded by H.R. 15856)

NASA's First Space Shuttle Astronaut Selection
On the Shoulders of Titans
Extending the Frontiers of Flight
Saturn V Flight Manual, SA 507

WARD UNDERWOOD

Managing NASA in the Apollo Era Courier Corporation
The Apollo 17 mission is discussed and illustrated. Lunar surface and orbital experiments are briefly described, and results are outlined.
Crash course Simon and Schuster
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.
Ascent from the Lunar Surface
www.Militarybookshop.CompanyUK
Unofficially they called themselves the TFNG, or the Thirty-Five New Guys.

Officially, they were NASAs Group 8 astronauts, selected in January 1978 to train for orbital missions aboard the Space Shuttle. Prior to this time only pilots or scientists trained as pilots had been assigned to fly on Americas spacecraft, but with the advent of the innovative winged spacecraft the door was finally opened to non-pilots, including women and minorities. In all, 15 of those selected were categorised as Pilot Astronauts, while the other 20 would train under the new designation of Mission Specialist. Altogether, the Group 8 astronauts would be launched on a total of 103 space missions; some flying only once, while others flew into orbit as many as five times. Sadly, four of their number would perish in the Challenger tragedy in January 1986. In their latest collaborative effort, the authors bring to life the amazing story behind the selection of the first group of Space Shuttle astronauts, examining their varied backgrounds and many accomplishments in a fresh and accessible way through deep research and revealing interviews. Throughout its remarkable 30-year history as the workhorse of NASAs human spaceflight exploration, twice halted through tragedy, the Shuttle fleet performed with magnificence. So too did these 35 men and women, swept up in the dynamic thrust and ongoing development of Americas Space Shuttle program. This book on the Group 8 Astronauts, the TFNGs, is an excellent summation of the individuals first selected for the new Space Shuttle Program. It provides

insight into what it took to first get the Space Shuttle flying. For any space enthusiast it is a must read. Robert L. Crippen PLT on STS-1.

A Guidebook to Taurus-Littrow

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

A Passion for Space Government Printing Office

This handbook consists of six core chapters: (1) systems engineering fundamentals discussion, (2) the NASA program/project life cycles, (3) systems engineering processes to get from a concept to a design, (4) systems engineeringprocesses to get from a design to a final product, (5) crosscutting management processes in systems engineering, and (6) special topics relative to systems engineering. These core chapters are supplemented by appendices that provide outlines, examples, and further information to illustrate topics in the core chapters. The handbook makes extensive use of boxes and figures to define, refine, illustrate, and extend concepts in the core chapters without diverting the reader from the main information. The handbook provides top-level guidelines for good systems engineering practices; it is not intended in any way to be a directive. NASA/SP-2007-6105 Rev1 supersedes SP-6105, dated June 1995

Springer Nature

Effective software is essential to the success and safety of the Space Shuttle, including its crew and its payloads. The on-board software continually monitors and controls critical systems throughout a Space Shuttle flight. At NASA's

request, the committee convened to review the agency's flight software development processes and to recommend a number of ways those processes could be improved. This book, the result of the committee's study, evaluates the safety, oversight, and management functions that are implemented currently in the Space Shuttle program to ensure that the software is of the highest quality possible. Numerous recommendations are made regarding safety and management procedures, and a rationale is offered for continuing the Independent Verification and Validation effort that was instituted after the Challenger Accident.

Launch Vehicle Design Process: Characterization, Technical Integration, and Lessons Learned DIANE Publishing

The official record of America's first space station, this book from the NASA History Series chronicles the Skylab program from its planning during the 1960s through its 1973 launch and 1979 conclusion. 1983 edition.

How the Space Shuttle Flew in Space NASA Systems Engineering Handbook (NASA/SP-2007-6105 Rev1) NASA Systems Engineering Handbook (NASA/SP-2007-6105 Rev1)www.MilitarybookshopCompanyUK lessons learned from accidents involving remotely piloted and autonomous aircraft Courier Corporation

System safety is the application of engineering and management principles, criteria, and techniques to optimize

safety within the constraints of operational effectiveness, time, and cost throughout all phases of the system life cycle. System safety is to safety as systems engineering is to engineering. When performing appropriate analysis, the evaluation is performed holistically by tying into systems engineering practices and ensuring that system safety has an integrated system-level perspective.The NASA System Safety Handbook presents the overall framework for System Safety and provides the general concepts needed to implement the framework. The treatment addresses activities throughout the system life cycle to assure that the system meets safety performance requirements and is as safe as reasonably practicable.This handbook is intended for project management and engineering teams and for those with review and oversight responsibilities. It can be used both in a forward-thinking mode to promote the development of safe systems, and in a retrospective mode to determine whether desired safety objectives have been achieved.The topics covered in this volume include general approaches for formulating a hierarchy of safety objectives, generating a corresponding hierarchical set of safety claims, characterizing the system safety activities needed to provide supporting evidence, and presenting a risk-informed safety case that validates the claims. Volume 2, to be completed in 2012, will provide specific guidance on the conduct of the major system safety activities and

the development of the evidence.

NASA technical note Springer

This is the story of the work of the original NASA space pioneers; men and women who were suddenly organized in 1958 from the then National Advisory Committee on Aeronautics (NACA) into the Space Task Group. A relatively small group, they developed the initial mission concept plans and procedures for the U. S. space program. Then they boldly built hardware and facilities to accomplish those missions. The group existed only three years before they were transferred to the Manned Spacecraft Center in Houston, Texas, in 1962, but their organization left a large mark on what would follow.Von Ehrenfried's personal experience with the STG at Langley uniquely positions him to describe the way the group was structured and how it reacted to the new demands of a post-Sputnik era. He artfully analyzes how the growing space program was managed and what techniques enabled it to develop so quickly from an operations perspective. The result is a fascinating window into history, amply backed up by first person documentation and interviews.

Comm Check... Academic Press

This work is a unique collection of valuable statistical information about Project Apollo. It includes a chapter (about 20 pages each) for Apollo 1 through Apollo 17. There are several data tables for each mission, plus a 50-page section with additional statistics and tables that merge data for each mission so you can easily make

comparisons. Tables include launch and ascent data, fuel consumption, stage impact locations, very detailed mission timelines, and much more.

NASA Strategic Plan Springer

This book provides unique access to the story of how scientists were accepted into the American Space Programme, and reveals how, after four difficult decades, the role of the heroic test pilot astronaut has been replaced by men and women who are science orientated space explorers.

A Statistical Reference National Academies Press

Explains how the space shuttle works and describes a shuttle trip from lift-off to touchdown.

SKYLAB, 1973-1974 Collectors Guide Pub

The original "final edition" of the Apollo 11 flight plan, restored and reprinted for the 50th Anniversary of the moon landing that took place in 1969.

Apollo 12 Princeton University Press

Marianne J. Dyson recounts for us a time when women were making the first inroads into space flight control, a previously male-dominated profession. The story begins with the inspiration of the Apollo 11 landing on the Moon and follows the challenges of pursuing a science career as a woman in the 70s and 80s, when it was far from an easy path. Dyson relates the first five space shuttle flights from the personal perspective of mission planning and operations in Houston at the Johnson Space Center, based almost exclusively on original sources such as journals and NASA weekly activity reports. The book’s

historical details about astronaut and flight controller training exemplify both the humorous and serious aspects of space operations up through the Challenger disaster, including the almost unknown fire in Mission Control during STS-5 that nearly caused an emergency entry of the shuttle. From an insider with a unique perspective and credentials to match, this a must-read for anyone interested in the workings of NASA during one of its busiest and defining times, and the challenges faced by women pursuing scientific careers.

Computers Take Flight: A History of NASA's Pioneering Digital Fly-By-Wire Project Springer Science & Business Media

As the National Aeronautics and Space Administration (NASA) retires the Space Shuttle and shifts involvement in International Space Station (ISS) operations, changes in the role and requirements of NASA's Astronaut Corps will take place. At the request of NASA, the National Research Council (NRC) addressed three main questions about these changes: what should be the role and size of Johnson Space Center's (JSC) Flight Crew Operations Directorate (FCOD); what will be the requirements of astronaut training facilities; and is the Astronaut Corps' fleet of training aircraft a cost-effective means of preparing astronauts for NASA's spaceflight program? This report presents an assessment of several issues driven by these questions. This report does not address explicitly the future of human spaceflight.

Scientific and Engineering Legacies of the Space Shuttle 1971-2010 National Academies Press
DVD contains unique synchronized film and audio of the lunar landing, rendezvous and docking. Rare training footage of the crew aboard the KC-135, launch footage, multi-camera EVA silm, splashdown and recovery footage.

An Assessment of Space Shuttle Flight Software Development Processes Springer Science & Business Media
1. A new science / 2. A hypersonic research airplane / 3. Conflict and innovation / 4. The million-horsepower engine / 5. High range and dry lakes / 6. Preparations / 7. The flight program / 8. The research program.

Preparing for the High Frontier Springer
Inside the epic quest to find life on the water-rich moons at the outer reaches of the solar system Where is the best place to find life beyond Earth? We often look to Mars as the most promising site in our solar system, but recent scientific missions have revealed that some of the most habitable real estate may actually lie farther away. Beneath the frozen crusts of several of the small, ice-covered moons of Jupiter and Saturn lurk vast oceans that may have existed for as long as Earth, and together may contain more than fifty times its total volume of liquid water. Could there be organisms living in their depths? Alien Oceans reveals the science behind the thrilling quest to find out. Kevin Peter Hand is one of today's leading NASA scientists, and his pioneering research has taken

him on expeditions around the world. In this captivating account of scientific discovery, he brings together insights from planetary science, biology, and the adventures of scientists like himself to explain how we know that oceans exist within moons of the outer solar system, like Europa, Titan, and Enceladus. He shows how the exploration of Earth's oceans is informing our understanding of the potential habitability of these icy moons, and draws lessons from what we have learned about the origins of life on our own planet to consider how life could arise on these distant worlds. Alien Oceans describes what lies ahead in our search for life in our solar system and beyond, setting the stage for the transformative discoveries that may await us.

The NASA History of Skylab

Written by a trio of experts, this is the definitive reference on the Apollo spacecraft and lunar modules. It traces the design of the vehicles, their development, and their operation in space. More than 100 photographs and illustrations highlight the text, which begins with NASA's origins and concludes with the triumphant Apollo 11 moon mission.

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