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Living and working in extra-terrestrial habitats means being potentially vulnerable to very harsh environmental, social, and psychological conditions. With the stringent technical specifications for launch vehicles and transport into space, a very tight framework for the creation of habitable space is set. These constraints result in a very demanding “partnership” between the habitat and ...

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This book considers two key educational tools for future generations of professionals with a space architecture background in the 21st century: (1) introducing the discipline of space architecture into the space system engineering curricula; and (2) developing space architecture as a distinct, complete training curriculum. Professionals educated this way will help shift focus from solely engineering-driven transportation systems and “sortie” missions towards permanent off-world human presence. The architectural training teaches young professionals to operate at all scales from the “overall picture” down to the smallest details, to provide directive intention-not just analysis-to design opportunities, to address the relationship between human behavior and the built environment, and to interact with many diverse fields and disciplines throughout the project lifecycle. This book will benefit individuals and organizations responsible for planning transportation and habitat systems in space, while also providing detailed information on work and design processes for architects and engineers.

Forty years on from the first moon landing, architecture in Space is entering a new era. Over the last decade, there has been a fundamental shift in the Space industry from short-term pioneering expeditions to long-term planning for colonisation, and new ventures such as Space tourism. Architects are now involved in designing the interiors of long-term habitable structures in Space, such as the International Space Station, researching advanced robotic fabrication technologies for building structures on the Moon and Mars, envisioning new 'space yachts' for the super-rich, and building new facilities, such as the Virgin Galactic 'Spaceport America' in New Mexico designed by Foster + Partners. Meanwhile the mystique of Space remains as alluring as ever, as high-profile designers and educators -

such as Greg Lynn - are running designs studios drawing upon ever more inventive computational design techniques. This issue of AD features the most significant current projects underway and highlights key areas of research in Space, such as energy, materials, manufacture and robotics. It also looks at how this research and investment in new technologies might transfer to terrestrial design and construction. Space architects: Constance Adams, Marc Cohen, Ondrej Doule, Sandra Häuplik-Meusburger, Scott Howe, Brent Sherwood, Madhu Thangavelu, Andreas Vogler, Robert Zubrin. Architects: Bevk Perovic Arhitekti, Dekleva Gregoric Arhitekti, Foster + Partners, Neil Leach, Greg Lynn, OFIS architects, SADAR + VUGA.

Presents a biography of the astronaut, Michael Collins, who circled the moon in the Apollo 11 space capsule while his colleagues Neil Armstrong and Buzz Aldrin landed the lunar module and walked on the moon.

In 1984 President Ronald Reagan gave NASA the go-ahead to build a Space Station. A generation later, the International Space Station is an established and highly successful research centre in Earth orbit. The history of this extraordinary project is a complex weave of powerful threads - political, diplomatic, financial and technological among them - but none is more fascinating than the story of its design. This book provides the first comprehensive account of the International Space Station's conception, development and assembly in space. As a highly accessible chronicle of a complex piece of design and engineering, it will appeal to readers far beyond the space field. NASA Astronaut Nicole Stott, a veteran of International Space Station Expeditions 20 and 21 and Shuttle Missions STS-128, STS-129 and STS-133, introduces the book with a personal memoir - 'A Home in Space'.

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.

The first American woman to walk in space recounts her experience as part of the team that launched, rescued, repaired, and maintained the Hubble Space Telescope. The Hubble Space Telescope has revolutionized our understanding of the universe. It has, among many other achievements, revealed

thousands of galaxies in what seemed to be empty patches of sky; transformed our knowledge of black holes; found dwarf planets with moons orbiting other stars; and measured precisely how fast the universe is expanding. In Handprints on Hubble, retired astronaut Kathryn Sullivan describes her work on the NASA team that made all of this possible. Sullivan, the first American woman to walk in space, recounts how she and other astronauts, engineers, and scientists launched, rescued, repaired, and maintained Hubble, the most productive observatory ever built. Along the way, Sullivan chronicles her early life as a "Sputnik Baby," her path to NASA through oceanography, and her initiation into the space program as one of "thirty-five new guys." (She was also one of the first six women to join NASA's storied astronaut corps.) She describes in vivid detail what liftoff feels like inside a spacecraft (it's like "being in an earthquake and a fighter jet at the same time"), shows us the view from a spacewalk, and recounts the temporary grounding of the shuttle program after the Challenger disaster. Sullivan explains that "maintainability" was designed into Hubble, and she describes the work of inventing the tools and processes that made on-orbit maintenance possible. Because in-flight repair and upgrade was part of the plan, NASA was able to fix a serious defect in Hubble's mirrors--leaving literal and metaphorical "handprints on Hubble." Handprints on Hubble was published with the support of the MIT Press Fund for Diverse Voices.

More than four decades have passed since a human first set foot on the Moon. Great strides have been made in our understanding of what is required to support an enduring human presence in space, as evidenced by progressively more advanced orbiting human outposts, culminating in the current International Space Station (ISS). However, of the more than 500 humans who have so far ventured into space, most have gone only as far as near-Earth orbit, and none have traveled beyond the orbit of the Moon. Achieving humans' further progress into the solar system had proved far more difficult than imagined in the heady days of the Apollo missions, but the potential rewards remain substantial. During its more than 50-year history, NASA's success in human space exploration has depended on the agency's ability to effectively address a wide range of biomedical, engineering, physical science, and related obstacles--an achievement made possible by NASA's strong and productive commitments to life and physical sciences research for human space exploration, and by its use of human space exploration infrastructures for scientific discovery. The Committee for the Decadal Survey of Biological and Physical Sciences acknowledges the many achievements of NASA, which are all the more remarkable given budgetary challenges and changing directions within the agency. In the past decade, however, a consequence of those challenges has been a life and physical sciences research program that was dramatically reduced in both scale and scope, with the result that the agency is poorly positioned to take full advantage of the scientific opportunities offered by the now fully equipped and staffed ISS laboratory, or to effectively

pursue the scientific research needed to support the development of advanced human exploration capabilities. Although its review has left it deeply concerned about the current state of NASA's life and physical sciences research, the Committee for the Decadal Survey on Biological and Physical Sciences in Space is nevertheless convinced that a focused science and engineering program can achieve successes that will bring the space community, the U.S. public, and policymakers to an understanding that we are ready for the next significant phase of human space exploration. The goal of this report is to lay out steps and develop a forward-looking portfolio of research that will provide the basis for recapturing the excitement and value of human spaceflight--thereby enabling the U.S. space program to deliver on new exploration initiatives that serve the nation, excite the public, and place the United States again at the forefront of space exploration for the global good.

"There's something intriguing to be learned on practically every page... [How to Astronaut] captures the details of an extraordinary job and turns even the mundane aspects of space travel into something fascinating."--Publishers Weekly Ride shotgun on a trip to space with astronaut Terry Virts. A born stroyteller with a gift for the surprising turn of phrase and eye for the perfect you-are-there details, he captures all the highs, lows, humor, and wonder of an experience few will ever know firsthand. Featuring stories covering survival training, space shuttle emergencies, bad bosses, the art of putting on a spacesuit, time travel, and much more!