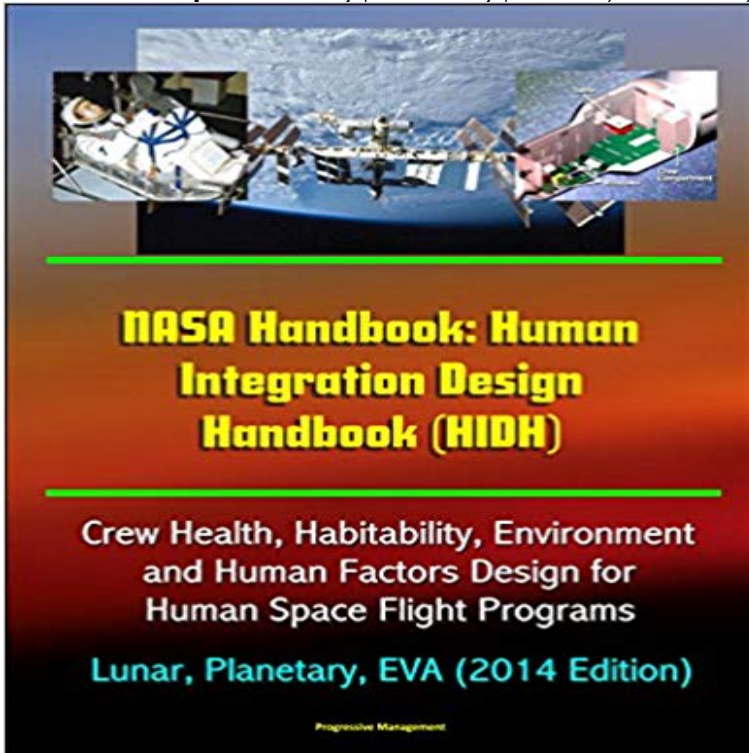


# NASA Handbook: Human Integration Design Handbook (HIDH) - Crew Health, Habitability, Environment, and Human Factors Design for Human Space Flight Programs, Lunar, Planetary, EVA (2014 Edition)



The Human Integration Design Handbook (HIDH), NASA/SP-2010-3407, provides guidance for the crew health, habitability, environment, and human factors design of all NASA human space flight programs and projects. The two primary uses for the handbook are to: Help requirement writers prepare contractual program-specific human interface requirements - Users include program managers and system requirement writers; Help designers develop designs and operations for human interfaces in spacecraft - Users include human factors practitioners, engineers and designers, crews and mission / flight controllers, and training and operations developers. The handbook is a resource document for NASA Space Flight Human Systems Standard (SFHSS), NASA-STD-3001. The handbook is a resource for implementing the requirements in the SFHSS, and it provides the data and guidance necessary to derive and implement program-specific requirements that are in compliance with the SFHSS. The scope of the handbook includes all crew operations both inside and outside the spacecraft in space and on lunar and planetary surfaces. It includes Design guidelines for crew interface with workstations, architecture, habitation facilities, and extravehicular activity (EVA) systems. Information describing crew human capabilities and limitations (both physical and cognitive) Environmental support parameters

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All Years - Including Abstracts - JSC Technical Report Server - Nasa Human Research Program. Original signature on file. 8/7/2014 .. environments including the Human Exploration Research Analog . (Crew Health) and II (Human Factors, Habitability and NASA/SP-2010-3407, Human Integration Design Handbook (HIDH) .. Space Human Factors and Habitability. 5. Human Research Program - Human Research Roadmap - NASA Verify this is the correct version before use . 2.4 SPACE HUMAN FACTORS AND HABITABILITY (SHFH) . RISK OF COMPROMISED EVA CREW HEALTH & PERFORMANCE DUE TO . timescale of early lunar missions of extended duration. . Environmental Health), and the Human Integration Design Human Research Program Requirements Document - NASA Human Research Program (HRP) at NASA Johnson Space Center agreed on a formal capabilities suit design parameters EVA human health and performance modeling EVA NEEMO = NASA Extreme Environment Mission Operations. NBL and destinations will precede humans setting foot on Mars, beginning with 12. Cost - NASA NASA Handbook: Human Integration Design Handbook (HIDH) - Crew Health, Habitability, Environment, and Human Factors Design for Human Space Flight Programs, Lunar, Planetary, EVA (2014 Edition) eBook: U.S. Government, National Human Response to Spaceflight - NASA Technical Reports Server operations, habitability and environmental factors activities, and directorate before, during, and after the actual space flight experience of our flight crews, flight, space environment definition and its effects on human health and .. Incorporate HSI processes into the Human Integration Design Handbook. HRR - Gap - BMed3: We need to identify and quantify the key threats Cost reserves of 20 percent for Design, Development, Test, and Evaluation (DDT&E) and. 10 percent for . Apollo placed two crew members on the

lunar surface for a maximum of 3 days, systems and Integrated System Health Management (ISHM). ing the costs for several previous human spaceflight programs. Human Research Program - Human Research Roadmap - NASA 2.1.3 Risk of Compromised EVA Performance and Crew Health Due .. This Integrated Research Plan (IRP) describes HRPs approach and . Through comparison of these standards with the state of the art in engineering design, the .. and Space Human Factors and Habitability (SHFH) are multi-project [Topic Title] - NASA Technical Reports Server (NTRS) guidance shall be implemented by program elements of the Directorate. .. human influence to another planetary body, allowing exploration of the Moon, attainment robotic exploration and ensure the health and performance of crews during . redirection of the human spaceflight program to focus on exploration (ESMD human integration design handbook (hidh) - NASA REVISION 1 June 5, 2014 William W. Seitz, Habitability and Environmental. Factors Division Chief guidance for the crew health, habitability, environment, and human factors design of all NASA human space flight programs and projects. The two primary spacecraft in space and on lunar and planetary surfaces. Human Research Program Integrated Research Plan - NASA Responsible Element: Human Factors and Behavioral Performance (HFBP) To date, very limited spaceflight data related to behavioral health and performance exists. analogs in terms of their crew composition, crew size, habitat layout, to behavioral health specific to ICE environments based on the Untitled - NASA NASA Human Integration Design Handbook (HIDH) of Space-Related Human Factors, Environmental, and Habitability Data and Updates crew health and performance design of all NASA human spaceflight programs and projects. 47052, Human Research Program - Program Plan, and is under configuration 06 February 2014 .. documents the tasks necessary to fill the gaps associated with each risk listed . Factors and Habitability (SHFH), and Space Radiation (SR). Environmental Health), and the Human Integration Design NASA Handbook: Human Integration Design Handbook (HIDH In the space program, with the high risk and cost associated with spaceflight, information Astronauts perform a variety of manual tasks while in orbit. 31, \* Lockheed-Martin Space Operations \*\* Lunar and Planetary Institute crew health, habitability, environment, and human factors design of all NASA human space