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**Moon and Mars NASA Human Exploration Program, Constellation, Ares Launch Vehicles, Orion Spacecraft NASA Technical Reports Series (CD-ROM)** World Spaceflight News
This up-to-date and comprehensive electronic book on CD-ROM presents an incredible collection of fascinating and historic NASA technical reports and documents on the Moon and Mars Human Exploration Program, the Constellation Program, Ares Launch Vehicles, and the Orion Spacecraft. America will send a new generation of explorers to the moon aboard NASA s Orion crew exploration vehicle. Making its first flights early in the next decade, Orion is part of the Constellation Program to send human explorers back to the moon, and then onward to Mars and other destinations in the solar system. Orion orbits the moon with disc-shaped solar arrays tracking the sun to generate electricity. A component of the Vision for Space Exploration, Orion s development is taking place in parallel with missions to complete the International Space Station using the space shuttle before the shuttle is retired in 2010. Orion will be capable of carrying crew and cargo to the space station. It will be able to rendezvous with a lunar landing module and an Earth departure stage in low-Earth orbit to carry crews to the moon and, one day, to Mars-bound vehicles assembled in low-Earth orbit. Orion will be the Earth entry vehicle for lunar and Mars returns. Orion s design will borrow its shape from the capsules of the past, but takes advantage of 21st century technology in computers, electronics, life support, propulsion and heat protection systems. Lockheed Martin Corp was awarded the contract to build Orion on Aug. 31, 2006. There are 110 documents included in this collection. Some of the titles include: New Heavy-Lift Capability For Space Exploration-NASA's Ares V Cargo Launch Vehicle * Return To Innovative Engineering Design, Critical Thinking & Systems Engineering * Ablation Modeling Of Ares 1 Upper Stage Thermal Protection System Using Thermal Desktop * Abort Flight Test Project Overview * Active Thermal Control System Development For Exploration * Advanced Thermal Control Technologies For CEV (Orion) * Aeroheating Test Of CEV Entry Vehicle At Turbulent Conditions * Analytical Investigation Of Pumped Fluid Loop Radiators For Orion Spacecraft * Antenna Technology & Other Radio Frequency Communications Activities At Glenn Research Center In Support Of NASA's Exploration Vision * Application Of Vacuum Swing Adsorption For Carbon Dioxide & Water Vapor Removal From Manned Spacecraft Atmospheres * Ares 1 Upper Stage Overview * Ares 1-X Flight Test Philosophy * Ares 1-X Vehicle Preliminary Range Safety Malfunction Turn Analysis * Ares Launch Vehicles Overview Space Access Society * Ares V Launch Capability Enables Future Space Telescopes * Ares V-An Enabling Capability For Future Space Astrophysics Missions * Ares V-An Enabling Capability For Future Space Science Missions * Ares V-Designing The Heavy Lift Capability To Explore The Moon * Autonomous Medical Care For Exploration Class Space Missions * Building Operations Efficiencies Into NASA's Ares 1 * CFD Modeling Activities At Stennis * Challenges Of Developing A Food System For A Mars Mission * Comprehensive Shuttle Foam Debris Reduction Strategies * Crew Exploration Vehicle Ascent Abort Trajectory Analysis & Optimization * Crew Exploration Vehicle Launch Abort System Flight Test Overview * Design For Reliability & Safety Approach For The New NASA Launch Vehicle * Development Of The J-2x Engine For The Ares 1 Crew Launch Vehicle & The Ares V Cargo Launch Vehicle Building On The Apollo Program For Lunar Return Missions 2006 * Environmental Assessment For The Construction & Operation Of The Constellation Program A-3 Test Stand * Experimental Measurement Of Rcs Jet Interaction Effects On A Capsule * External Pulsed Plasma Propulsion & Its Potential For The Near Future * Flight & Integrated Testing-Blazing The Trail For The Ares Launch Vehicles * Formulation Of NASA's Constellation Program

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