

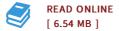
NASA Technical Reports Server (NTRS), Biliyar N. Bhat



Materials Challenges in Space Exploration

By Biliyar N. Bhat

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 30 pages. Dimensions: 9.7in. x 7.4in. x 0.1in.United States civil space program administered by National Aeronautics and Space Administration has a new strategic direction to explore the solar system. This new vision for space exploration encompasses a broad range of human and robotic missions, including the Moon. Mars and destinations beyond. These missions require advanced systems and capabilities that will accelerate the development of many critical technologies, including advanced materials and structural concepts. Specifically, it is planned to develop high-performance materials for vehicle structures, propulsion systems, and space suits; structural concepts for modular assembly for space infrastructure: lightweight deployable and inflatable structures for large space systems and crew habitats; and highly integrated structural systems and advanced thermal management systems for reducing launch mass and volume. This paper will present several materials, space durable materials, radiation protection materials, and nano-structural materials. Finally, the paper will take a look at the possibility of utilizing materials in situ, i. e. , processing materials on the surface of the Moon and Mars. This item ships from La Vergne,TN. Paperback.



Reviews

Excellent eBook and valuable one. It normally will not price too much. Your daily life span is going to be change once you comprehensive reading this ebook.

-- Ezra Bergstrom

Comprehensive guide for ebook lovers. It is writter in simple words and phrases and never confusing. You are going to like how the writer create this pdf. -- Dr. Cullen Schmitt MD