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Galactic and Solar Cosmic Ray Shielding in Deep Space (Paperback)

By National Aeronautics and Space Adm Nasa

Independently Published, United States, 2019. Paperback. Condition: New. Language: English. Brand new Book. An analysis of the radiation hazards in support of NASA deep space exploration activities is presented. The emphasis is on materials required for radiation protection shielding. Aluminum has been found to be a poor shield material when dose equivalent is used with exposure limits for low Earth orbit (LEO) as a guide for shield requirements. Because the radiation issues are cost related-the parasitic shield mass has high launch costs, the use of aluminum as a basic construction material is clearly not cost-effective and alternate materials need to be developed. In this context, polyethylene is examined as a potentially useful material and demonstrates important advantages as an alternative to aluminum construction. Although polyethylene is useful as a shield material, it may not meet other design criteria (strength, stability, thermal); other polymer materials must be examined. Wilson, John W. and Cucinotta, Francis A. and Tai, H. and Simonsen, Lisa C. and Shinn, Judy L. and Thibeault, Shelia and Kim, M. Y. Langley Research Center NASA-TP-3682, NAS 1.60:3682, L-17634 RTOP 199-45-16-11.

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