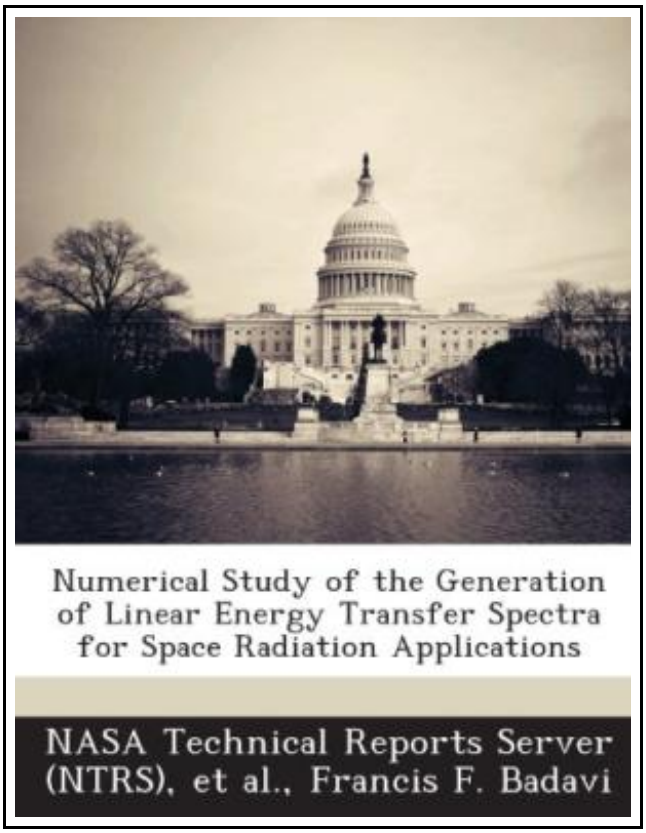
Numerical Study of the Generation of Linear Energy Transfer Spectra for Space Radiation Applications



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NUMERICAL STUDY OF THE GENERATION OF LINEAR ENERGY TRANSFER SPECTRA FOR SPACE RADIATION APPLICATIONS

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Bibliogov, United States, 2013. Paperback. Book Condition: New. 239 x 180 mm. Language: English . Brand New Book ***** Print on Demand *****.In analyzing charged particle spectra in space due to galactic cosmic rays (GCR) and solar particle events (SPE), the conversion of particle energy spectra into linear energy transfer (LET) distributions is a convenient guide in assessing biologically significant components of these spectra. The mapping of LET to energy is triple valued and can be defined only on open energy subintervals where the derivative of LET with respect to energy is not zero. Presented here is a well-defined numerical procedure which allows for the generation of LET spectra on the open energy subintervals that are integrable in spite of their singular nature. The efficiency and accuracy of the numerical procedures is demonstrated by providing examples of computed differential and integral LET spectra and their equilibrium components for historically large SPEs and 1977 solar minimum GCR environments. Due to the biological significance of tissue, all simulations are done with tissue as the target material.

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