

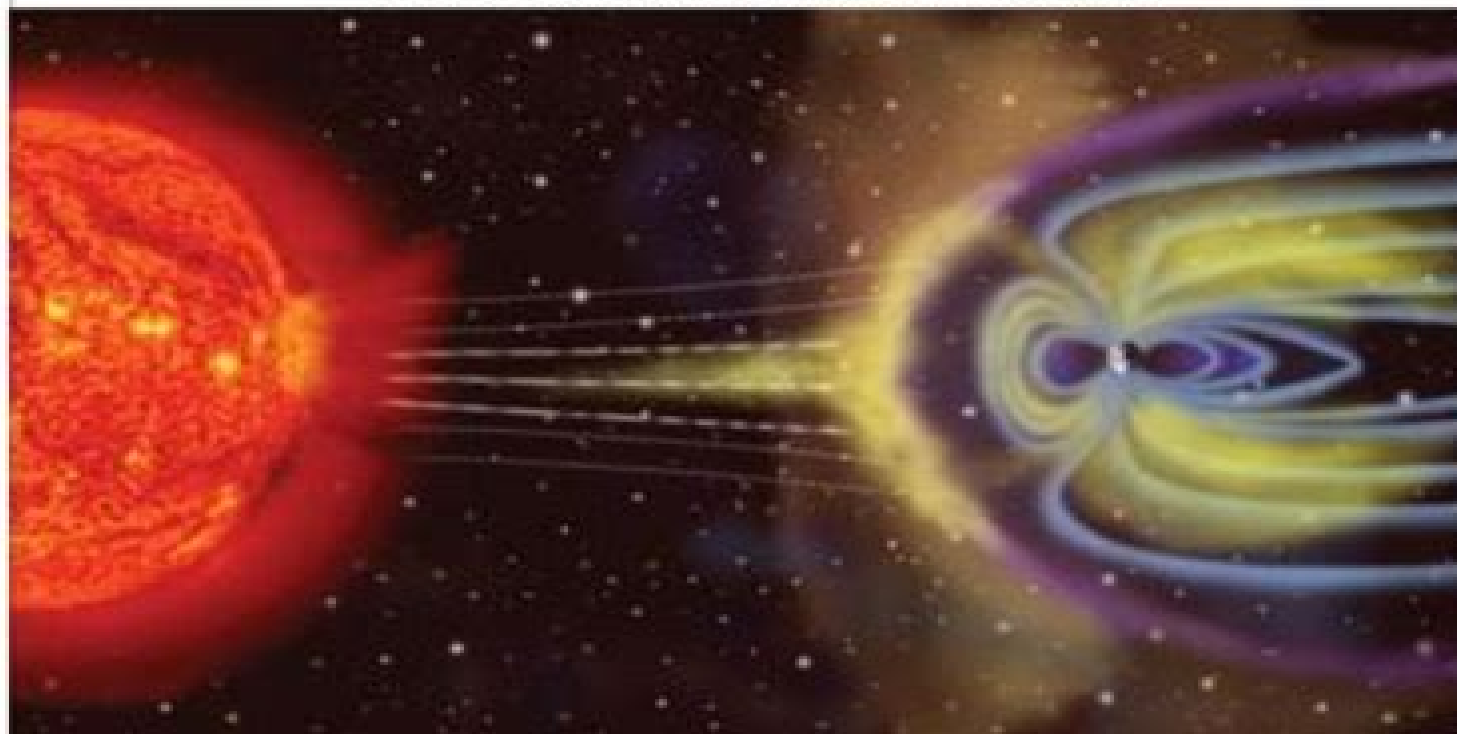
HANDBOOK OF

SPACE-RADIATION EFFECTS

ON SOLAR-CELL

POWER SYSTEMS

By William C. Cooley and Robert J. Jarda
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION



Handbook Of Space Radiation Effects On Solar Cell Power Systems

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Handbook Of Space Radiation Effects On Solar Cell Power Systems:

Handbook of Space-radiation Effects on Solar-cell Power Systems William C. Cooley, Robert J. Janda, 1963 **Handbook of Space-radiation Effects on Solar-cell Power Systems [with List of References]**, 1963 *NASA Special Publications*, 1966 Space Power Systems Engineering George C. Szego, J. Edward Taylor, 2014-07-10 Space Power Systems Engineering is a collection of papers dealing with the requirements for space power systems system design component research the problems of application to spacecraft and the development of a variety of space electric power systems Some papers discuss nuclear power systems development including nuclear reactors nuclear dynamic systems nuclear thermoelectric systems and nuclear thermionic systems Several papers tackle solar systems development including solar collectors solar dynamic systems solar thermoelectric systems chemical fuel cell systems and chemical primary battery systems A magnetohydrodynamic power system can be utilized for space electric generation Power conversion or conditioning involves the interface between raw electric power and the on board consumption of that electric power One paper cites an application of a potential power system particularly the engine development in a power package which includes a single cylinder engine generator gas compressor and recuperator Some design considerations for the engine include an operation with an O₂/H₂ mixture of 2 to 1 obtained either from supercritical tankage or in the form of helium diluted boil off gases a power level of 2 kw average 3 kw maximum and an uninterrupted life of 350 hr The collection can prove immensely beneficial for nuclear engineers aeronautical engineers chemists researchers or technical designers whose works are related with energy conversion and space power systems **NASA Special Publications Currently Available ...** United States. National Aeronautics and Space Administration, **Solar Energy** United States. Energy Research and Development Administration. Technical Information Center, 1976 NASA Scientific and Technical Reports United States. National Aeronautics and Space Administration Scientific and Technical Information Division, 1964 **Scientific and Technical Aerospace Reports**, 1992 **Solar Energy Index** George Machovec, 2013-10-22 Solar Energy Index is an index of resources dealing with solar energy including archival materials from the International Solar Energy Society collection references to articles in major solar journals patents and pamphlets National Technical Information Service reports unbound conference proceedings and other assorted reports Both theoretical and how to do it publications are well represented This book places particular emphasis on terrestrial solar thermal and photovoltaic applications of solar energy Subjects are classified according to physics terrestrial wind collectors space heating and cooling economics materials distillation thermal electric power systems photoelectricity solar furnaces cooking biological applications water heaters photochemistry energy storage mechanical devices evaporation sea power space flight applications and industrial applications Topics covered range from wind energy and bioconversion to ocean thermal energy conversion heliohydroelectric power plants solar cells turbine generation systems thermionic converters batteries and fuel cells and pumps and engines This monograph will be of interest

to government officials and policymakers concerned with solar energy Physics of Semiconductor Devices V. K. Jain, Abhishek Verma, 2013-11-27 The purpose of this workshop is to spread the vast amount of information available on semiconductor physics to every possible field throughout the scientific community As a result the latest findings research and discoveries can be quickly disseminated This workshop provides all participating research groups with an excellent platform for interaction and collaboration with other members of their respective scientific community This workshop s technical sessions include various current and significant topics for applications and scientific developments including Optoelectronics VLSI ULSI Technology Photovoltaics MEMS Sensors Device Modeling and Simulation High Frequency Power Devices Nanotechnology and Emerging Areas Organic Electronics Displays and Lighting Many eminent scientists from various national and international organizations are actively participating with their latest research works and also equally supporting this mega event by joining the various organizing committees A Selected Listing of NASA Scientific and Technical Reports for ... United States. National Aeronautics and Space Administration. Scientific and Technical Information Division, 1964 Research and Technology Program Digest United States. National Aeronautics and Space Administration, NASA SP. , 1990 *Space Station Systems* , 1990 *Government-wide Index to Federal Research & Development Reports* , 1966 **Monthly Catalog of United States Government Publications** , 1961 **Solar Energy Update** , 1978-04 **U.S. Government Research & Development Reports** , 1966 **Solar Energy: Indexes** United States. Energy Research and Development Administration. Technical Information Center, 1976 **Monthly Catalog of United States Government Publications** United States. Superintendent of Documents, 1961

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