



The diagram illustrates the interaction between a spacecraft and its environment. On the left, a satellite is shown in orbit. Three horizontal arrows point towards the satellite from the left, representing the flow of particles or energy. On the right, a cross-section of the Earth's magnetosphere is shown, with magnetic field lines curving around the planet. A second satellite is depicted within this magnetospheric region, interacting with the field lines.

Spacecraft- Environment Interactions

Daniel Hastings
Henry Garrett

CAMBRIDGE ATMOSPHERIC AND
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Spacecraft Environment Interactions

Michael Lauriente



Spacecraft Environment Interactions:

Spacecraft-environment Interactions Daniel Hastings, Henry Garrett, 2004 **An Online Spacecraft Environment Interactions Information System** Michael Lauriente, 1990 Modeling of Spacecraft Environment Interactions on SMART-1 M. Tajmar, 2000 Spacecraft Environment Interaction Investigation N. John Stevens, Marc E. Kirkpatrick, TRW SPACE AND TECHNOLOGY CORP REDONDO BEACH CA SYSTEM INTEGRATION LAB., 1986 This report summarizes the results of the spacecraft environment interaction investigation The objectives of this investigation were to characterize environmental interaction technology and to determine the adequacy of present military standards and handbooks for future large AF missions The characterization of the technology status was accomplished by literature searches and key expert questionnaires The determination of military standard adequacy was accomplished by considering interactions with five concepts synthesized from those available in the MSSTP Based on these concepts studies critical interactions were identified The available military documentation was searched for applicability A recommended document development plan was prepared along with a discussion of technology gaps Keywords Spacecraft space environmental interactions space structures high power space systems Astronauts military handbooks standards **Взаимодействие космических аппаратов с окружающей средой** В. И. Дегтярев, Научный совет по проблеме "Физика солнечно-земных связей" РАН. Секция Сибирского отделения, Научный совет по комплексной проблеме "Распространение радиоволн" (Российская академия наук.). Восточно-Сибирское отделение, Институт солнечно-земной физики (Норильск, Россия), 1995

Spacecraft/environment Interactions CAE Tool User's Manual , 1987 *Control of Particle-spacecraft Interactions in a LEO Near-spacecraft Environment* J. C. Conger, 1993 *Scientific and Technical Aerospace Reports* , 1985

Environmental Interactions and the SP-100 Power System , 1993 *Spacecraft Environments Interactions* William W. Vaughan, 1996 *Spacecraft Environmental Interactions Technology* , Spacecraft Interactions with the Space Environment A. C. Tribble, 1995 *Recent Observations of High Voltage Spacecraft Environment Interaction at LEO Altitudes Using Sounding Rockets* W. J. Raitt, 1990 Spacecraft Environments Interactions National Aeronautics and Space Administration (NASA), 2018-07-11 The effects of the natural space environments on spacecraft design development and operation are the topic of a series of NASA Reference Publications currently being developed by the Electromagnetics and Environments Branch Systems Analysis and Integration Laboratory Marshall Space Flight Center This primer second in the series describes the interactions between a spacecraft and the natural space plasma Under certain environmental spacecraft conditions these interactions result in the phenomenon known as spacecraft charging It is the focus of this publication to describe the phenomenon of spacecraft charging and its possible adverse effects on spacecraft and to present the key elements of a Spacecraft Charging Effects Protection Plan Herr J L and Mccollum M B Marshall Space Flight Center

NASA Conference Publication , 1991 **Technology for Large Space Systems** , 1983 Journal of the British

Interplanetary Society British Interplanetary Society,1994 Bound with vol 1 1934 is the Society s annual report and list of members 1934 *Spacecraft/Environment Interactions CAE Tool. Volume 1. Users Manual* J. R. Lilley,S. G. Waisman,D. Peterka,D. Daou,M. J. Mandell,S-CUBED LA JOLLA CA.,1988 This Computer Aided Engineering tool package will aid spacecraft developers by adding a user friendly interface to two spacecraft charging analysis codes namely NASCAP GEO NASA Charging Analyzer Program Geosynchronous Orbits and POLAR 1 1 Potentials of Large Orbiting Spacecraft in the Auroral Region The software package contains four major independent programs They are a model definition program with a specialized interface to ANVIL 5000 separate interactive control programs for analyzing models in different environments using either NASCAP GEO or POLAR 1 1 and a graphics display program to present the calculation results using MOVIE BYU DYNA MOVIE kr **40th AIAA Aerospace Sciences Meeting & Exhibit** ,2002 NASA/SDIO Space Environmental Effects on Materials Workshop, Part 2 ,1989

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