



The diagram illustrates the interaction between a spacecraft and its environment. On the left, a satellite is shown in orbit. Three horizontal arrows point from the satellite towards the right, representing the flow of the environment. On the right, a cross-section of the spacecraft's environment is shown, with magnetic field lines curving around it. A smaller satellite is depicted within this environment, showing its interaction with the field lines.

Spacecraft- Environment Interactions

Daniel Hastings
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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 [NASA Conference Publication](#), 1991 **Spacecraft Environmental Interactions Technology , Recent Observations of High Voltage Spacecraft Environment Interaction at LEO Altitudes Using Sounding Rockets** W. J. Raitt, 1990 **Spacecraft Interactions with the Space Environment** A. C. Tribble, 1995 **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 **Technology for Large Space Systems**, 1983 *NASA/SDIO*

Space Environmental Effects on Materials Workshop, Part 2, 1989 **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 **NASA/SDIO Space Environmental Effects on Materials Workshop**, 1989 **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

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