



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

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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

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