



# Guide to Mitigating Spacecraft Charging Effects

*Henry B. Garrett, Albert C. Whittlesey*

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**The definitive guide to the modern body of spacecraft charging knowledge—from first principles for the beginner to intermediate and advanced concepts**

The only book to blend the theoretical and practical aspects of spacecraft charging, *Guide to Mitigating Spacecraft Charging Effects* defines the environment that not only creates the aurora, but which also can have significant effects on spacecraft, such as disruption of science measurements and solar arrays from electrostatic discharge (ESD). It describes in detail the physics of the interaction phenomenon as well as how to construct spacecraft to enhance their survivability in the harsh environment of space.

Combining the authors' extensive experience in spacecraft charging—and in their provision of design support to NASA, JPL, the commercial satellite market, and numerous other projects—this incredible book offers both a robust physics background and practical advice for neophytes in the field and experienced plasma physicists and spacecraft engineers.

In addition to containing numerous equations, graphs, tables, references, and illustrations, *Guide to Mitigating Spacecraft Charging Effects* covers:

- Solar cell technology, especially higher voltage arrays, and the new design approaches that are appropriate for them
- Information about the space plasma environment
- New analytic computer codes to analyze spacecraft charging
- Spacecraft anomalies and failures which emphasized designs that are of greater importance than others

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