

## Spacecraft Environment Interactions

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Spacecraft interact with the space environment in ways that may affect the operation of the spacecraft as well as any scientific experiments that are carried out from the spacecraft platform. In turn the study of these interactions provides information on the space environment. The adverse environmental effects, such as the effect of the radiation belts on electronics, and spacecraft charging ...

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Since the effects of the solar environment are mainly to disturb other components, the space environment related to spacecraft operation is categorized into six areas, including the neutral...

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within a spacecraft, by dividing the problem into these parts—external environment, propagation, and internal environment—a basis for understanding the practical process of protecting a spacecraft from radiation will be established. The consequences of this environment will be

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Spacecraft interact with the space environment in ways that may affect the operation of the spacecraft as well as any scientific experiments that are carried out from the spacecraft platform. In turn the study of these interactions provides information on the space environment.

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## ~~MAE 589-614 Spacecraft Environment and Interactions ...~~

~~Spacecraft-Plasma Interactions~~ The plasma environment that a spacecraft will encounter as a function of orbit is described in Section 3.3. Although the plasma environment is not necessarily the dominant environment in a particular case, it can nevertheless have a profound and destructive effect on a spacecraft or its payload.

## ~~Plasma Interactions (Chapter 5) - Spacecraft Environment ...~~

~~Space environment interactions with materials can also produce contaminants, such as volatile products of atomic oxygen reactions and UV-induced or radiation-induced chain-scission products in polymer materials, and residual nonoxidative films left free-standing due to atomic oxygen erosion of underlying material.~~

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Spacecraft interact with the space environment in ways that affect the operation of the spacecraft. The emphasis in this book is on the fundamental physics of the interactions. This book will be a

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