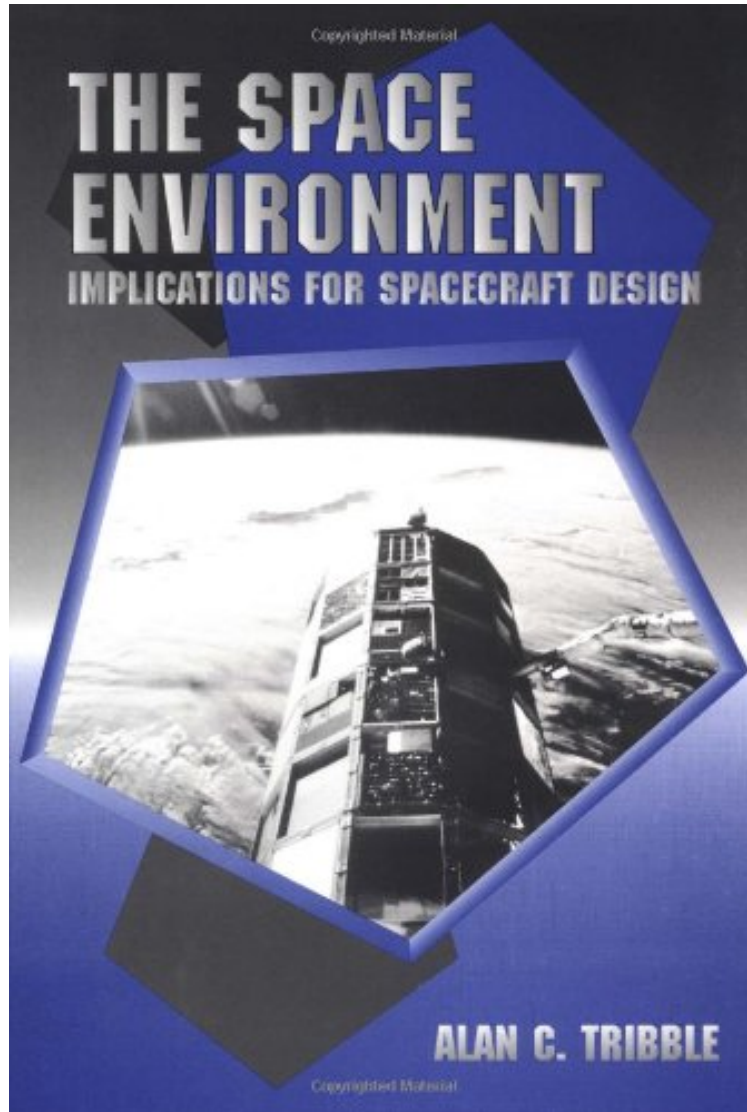


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The Space Environment

Alan C. Tribble

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Alan C. Tribble : The Space Environment before purchasing it in order to gage whether or not it would be worth my time, and all praised The Space Environment:

0 of 0 people found the following review helpful. Nice bookBy Nevsan SENGILI little bit out of date.8 of 8 people found the following review helpful. A useful referenceBy Jill MalterTribble supplies a good overview of environmental effects on spacecraft. That includes the consequences of being in a vacuum, interactions with neutral particles, plasma interactions (including spacecraft charging), radiation (total dose and single event effects) and hypervelocity impacts. That basically covers the whole field (unless you want to include weightlessness).This book

packs a large amount of information, including micrometeoroid fluxes, all sorts of radiation fluxes, nominal and storm plasma conditions, oxygen reaction efficiency, orbital decay times, and solar cycle activity. It's very handy if you work with spacecraft systems or payloads. 8 of 9 people found the following review helpful. Pretty good text for Space Environment Interactions. By A Customer I wouldn't call this text amazing, but it is certainly adequate. I used this book for a graduate level course in space environment interactions mostly because there was a lack of other resources available. This book gives a decent overview, without getting too bogged down with the physics involved. However, the professor had to pull a large chunk of his material from other sources (out of print sources) because Tribble is a little too basic. As an aerospace engineer, I don't care so much about the EE stuff, so Tribble does a good job summarizing the EE physics. Overall, a sufficient reference that gives a good overview of s/c-environment interactions.

The Description for this book, *The Space Environment: Implications for Spacecraft Design*, will be forthcoming.

"This book ... successfully bridges the divide between the space physicists' and the spacecraft design engineers' views of the space environment. It is a much needed, and timely book with quite simple theoretical discussions." --Journal of Atmospheric and Terrestrial Physics
From the Back Cover: Through offering insight into the nature of the space environment and how spacecraft interact with it, Alan Tribble presents a unifying, up-to-date account of the environmental effects that can damage or cause poor performance of orbiting spacecraft.
About the Author: Alan C. Tribble is a rocket scientist who has spent over ten years designing dozens of spacecraft for various missions. Formerly with Boeing's Space Systems Division, he now does research and development with Rockwell Collins. His other books include *The Princeton Guide to Advanced Physics* and *A Tribble's Guide to Space* (both Princeton).