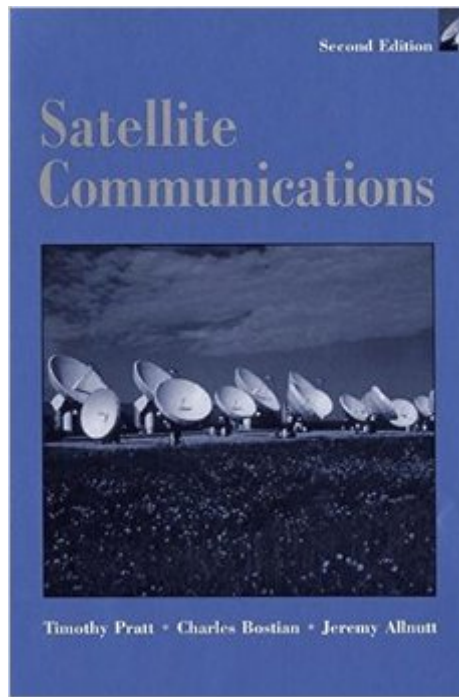


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# Satellite Communications



## Synopsis

Includes chapters on orbital mechanics, spacecraft construction, satellite-path radio wave propagation, modulation techniques, multiple access, and a detailed analysis of the communications link.

## Book Information

Hardcover: 560 pages

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## Customer Reviews

I read this book as a reference rather than a formal class textbook. As a self-studying student, the first book I bought to study satellite communications was the famous 'Digital Satellite Communications' written by Dr. Tri t. Ha. It is actually a quite good book. However it was just too much for a beginner. Too much mathematical formulas and too less literal explanation for a new concept. It took 8 months to read just one third of the book during my military service. Since I have been assigned to a digital satellite earthstation construction project recently, I needed a new book that explains more practically and easily. This 'Satellite Communications' by Dr. Timothy Pratt and Dr. Charles W. Bostian. To cover almost all area of the satellite communications, the overall composition is similar to other books. At chapter 3, 'SPACECRAFT', I could find fine explanation on the satellite beam and coverage. Especially, this helps me with understanding and analyzing the SRS-CDROM data. This is really great for me. Some basic and important concepts like Noise, C/N and G/T are very well described in chapter 4, 'SATELLITE LINK DESIGN'. Frankly, most books tend to jump to mathematical method to explain concepts. The author spared more pages to explain the concept and the physical meaning of the terminology. I know this is a very efficient and simple

way to show the existing and potential meaning of terminology. But there are hundreds of good reasons to have this kind of kind book for a slowly understanding engineer like me. :-) At chapter 5 and 6 to explain the modulation, multiplexing and multiple access, there are less fomulas and more tables and graphs. First, I read over those two chapters and went back to Dr. Ha's book above to learn the mathematical expression.

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