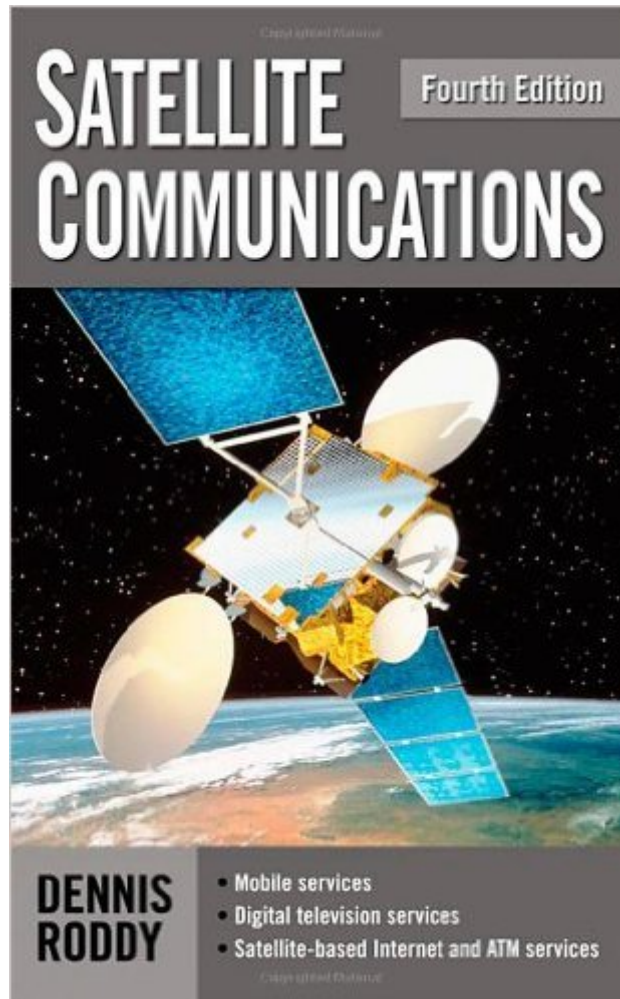


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# Satellite Communications, Fourth Edition (Professional Engineering)



## Synopsis

Master the fundamentals of satellite communications. Highly regarded for more than a decade as both a teaching text and professional tutorial, this classic guide to satellite communications has been revised, updated, and expanded to cover global wireless applications, digital television, and Internet access via satellite. In-depth, textbook-style coverage combined with an intuitive, low-math approach makes this book particularly appealing to the wireless and networking markets. New to this edition: Global wireless services, including 3G; Antenna Options, Error Coding

## Book Information

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Average Customer Review: 4.0 out of 5 stars [See all reviews](#) (17 customer reviews)

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## Customer Reviews

This is an excellent introduction to the field that's pitched at the undergraduate engineering level. It's clearly and concisely written and the writing overall is much better than what I'm used to finding for most engineering texts. It uses almost no calculus, actually, but there's a fair amount of trigonometry, which shouldn't be a problem for most people who will be reading this book. Its strength is in the breadth of coverage; some of the topics, such as entire antenna design, or digital signal theory, are huge areas just by themselves that you will need other books for if you need more depth there. By the way, the Schaum's Outline on Digital Signal Processing is outstanding if you're looking to get a leg up there. It's more concise, better written, and explains concepts better than the vast majority of the texts out there. It's also important to know the basics about radio and wireless communication before reading this book, otherwise it will just be too difficult. So you should already

know something about subjects such as analog and digital signals, amplitude and frequency modulation, basic filter concepts such as low and high pass filters, amplifiers, coders and decoders, frequency detectors, antenna principles, and so on, before reading this book. There's also a fair amount of microwave information in the book, but this is easier to pick up if you already have some idea about wireless radio communication. I agree with the other writer that one weakness of the book is it lacks coverage of the more recent developments such as current IP topologie, satellite Internet IP services like Hughes and BGAN, or discussion of current DVB-S or S2 technology, digital satellite services that are used all over the world now since 1995.

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