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## Satellite communication by timothy pratt pdf

Timothy Pratt is the author of *Satellite Communications*, 2nd Edition, published by Wiley. Charles W. Bostian is Professor Emeritus of Electrical Engineering and Computer Engineering at Virginia Tech, USA. His students and he made great contributions to cognitive radio, including developing basic terminology and creating some of the first working prototypes. Includes chapters on orbital mechanics, spacecraft construction, radio wave distribution of satellite trajectory, modulation techniques, multiple access and detailed communication analysis. An extensive review of the best-selling satellite book - includes new chapters on kubsat, NGSO satellite systems and Internet access by satellite. In the thirty-three years since the first edition of *Satellite Communications* was published - has undergone many changes. There is a complete transition from analog to digital communication systems, with analysis techniques being replaced by digital modulation and digital signal processing. While the proliferation of television programming remains the largest sector of commercial satellite communications, the low-orbit constellations of satellites for Internet access will challenge this dominance. The third edition of chapters from one to three covers topics that are specific to satellites, including orbits, launchers and spacecraft. Chapters from four to seven cover the principles of digital communication systems, radio frequency communication, digital modulation and multiple access methods, as well as the dissemination in the Earth's atmosphere, topics that are common to all radio systems. Chapters from eight to twelve cover applications that include non-geostationary satellite systems, low bandwidth systems, direct satellite television, Internet access via satellites and global navigation satellite systems. The chapter on internet access via satellite is new to the third edition, and each chapter has been extensively revised to include numerous changes in this area since the publication of the second edition in 2003. Two applications have been added that cover the digital transmission of analog signals and antennas. Invaluable Resource for Students and Professionals Alike, this book: Focuses on the Fundamental Theory of Satellite Communication Explains the Basic Principles and Basic Mathematics Needed to Understand The Physics and Engineering of Satellite Communications Discusses the expansion of satellite communications systems in areas such as direct satellite television broadcasting, GPS, and Internet access represents a fast-paced field of small satellites, called SmallSats or CubeSats Provides relevant practice challenges based on real-world satellite satellite communications systems. courses and authoritative background information for engineers working in communications, systems and networks, as well as satellite operations and management. Download... Academia.edu no longer supports the Internet Explorer. To browse the Academia.edu and the wider Internet faster and more securely, please take a few seconds to update the browser. Academia.edu uses cookies to personalize content, adapt ads, and improve user experience. Using our website, you agree to our collection of information using cookies. To find out more, check out our privacy policy. Covers the main themes needed to understand this important technology that we use every day. Recommended for those who are not afraid of serious, technical reading and interested in the topic. Just went through the propaganda chapters, it's a very good academic book for beginners. This review was hidden because it contains spoilers. To view it, click here. Good This review has been hidden because it contains spoilers. To view it, click here. 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