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 Broadband Satellite Communication Systems and the Challenges of Mobility

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Mobile and Personal Satellite Communications John Wiley & Sons

Extensive revision of the best-selling text on satellite communications — includes new chapters on cubesats, NGSO satellite systems, and Internet access by satellite. There have been many changes in the thirty three years since the first edition of Satellite Communications was published. There has been a complete transition from analog to digital communication systems, with analog techniques replaced by digital modulation and digital signal processing. While distribution of television programming remains the largest sector of commercial satellite communications, low earth orbit constellations of satellites for Internet access are set to challenge that dominance. In the third edition, chapters one through three cover topics that are specific to satellites, including orbits, launchers, and spacecraft. Chapters four through seven cover the principles of digital communication systems, radio frequency communications, digital modulation and multiple access techniques, and propagation in the earth's atmosphere, topics that are common to all radio communication systems. Chapters eight through twelve cover applications that include non-geostationary satellite systems, low throughput systems, direct broadcast satellite television, Internet access by satellite, and global navigation satellite systems. The chapter on Internet access by satellite is new to the third edition, and each of the chapters has been extensively revised to include the many changes in the field since the publication of the second edition in 2003. Two appendices have been added that cover digital transmission of analog signals, and antennas. An invaluable resource for students and professionals alike, this book: Focuses

on the fundamental theory of satellite communications. Explains the underlying principles and essential mathematics required to understand the physics and engineering of satellite communications. Discusses the expansion of satellite communication systems in areas such as direct-broadcast satellite TV, GPS, and internet access. Introduces the rapidly advancing field of small satellites, referred to as SmallSats or CubeSats. Provides relevant practice problems based on real-world satellite systems. Satellite Communications is required reading for undergraduate and postgraduate students in satellite communications courses and an authoritative reference for engineers working in communications, systems and networks, and satellite operations and management. [Satellite Communications](#) Springer Science & Business Media This is a satellite communications primer.

Satellite Communications SPIE Press

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

[Satellite Communications for the Nonspecialist](#) BRILL

Broadband Satellite Communication Systems and the Challenges of Mobility is an essential reference for both academic and professional researchers in the field of telecommunications, computer networking and wireless networks. Recently the request of multimedia services has been rapidly increasing and satellite networks appear to be attractive for a fast service deployment and for extending the typical service area of terrestrial systems. In comparison with traditional wide area networks, a characteristic of satellite communication systems is their ability in broadcasting and multicasting multimedia information flows anywhere over the satellite coverage. The papers presented in

this volume highlight key areas such as Satellite Network Architectures, Services and Applications; Mobile Satellite Systems and Services; and Hybrid Satellite and Terrestrial Networks. Mobility will inevitably be one of the main characteristics of future networks, terminals and applications and, thus, extending and integrating fixed network protocols and services to mobile systems represents one of the main issues of present networking. The secondary focus of this volume is on challenges of mobility, that is, on technologies, protocols and services for the support of seamless and nomadic user access to new classes of applications in person-to-person, device-to-device and device-to-person environments. The book comprises recent results of research and development in the following areas; Seamless mobility; Mobile ad hoc and sensor networks; Analysis, simulation and measurements of mobile and wireless systems; Integration and inter-working of wired and wireless networks; QoS in mobile and wireless networks; Future trends and issues concerning mobility. This state-of-the-art volume contains a collection of papers from two of the workshops of the 18th IFIP World Computer Congress, held August 22-27, 2004, in Toulouse, France: the Workshop on Broadband Satellite Communication Systems, and the Workshop on the Challenges of Mobility.

[SATELLITE COMMUNICATIONS SYSTEMS: DESIGN PRINCIPLES](#) John Wiley & Sons

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