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FIFTH EDITION

Modern Digital and Analog Communication Systems



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2/E DIGITAL SATELLITE COMMUNICATIONS (NINE) Tri T. Ha, 1990 **Satellite Communications** Timothy Pratt, Jeremy E. Allnutt, 2019-12-16 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. Solutions Manual for Modern Digital and Analog Communication Systems Fourth Edit B. P. Lathi, 2009-03-08 **Manual of Satellite Communications** Emanuel P. Theodorakis, 1984

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engineering aspects of satellite systems as well as the practical issues in the broad field of information transmission. Implementing concepts developed on an intuitive physical basis and utilizing a combination of applications and performance curves, this book starts off with a progressive foundation in satellite technology and then moves on to more complex concepts with ease. What's New in the Second Edition: The second edition covers satellite and Earth station design, global positioning systems, antenna tracking links, and communications systems error detection and correction, data security regulations, and procedures for system modeling, integration testing, and reliability and performance evaluation. Provides readers with the systems building blocks of satellite transponders and Earth stations as well as the systems engineering design procedure. Includes the tools needed to calculate basic orbit characteristics such as period, dwell time, coverage area, propagation losses, antenna system features such as size, beamwidth, aperture, frequency, product gain, tracking control, and system requirements such as power availability, reliability, and performance. Presents problem sets and starred sections containing basic mathematical development. Details recent developments enabling digital information transmission and delivery via satellite. *Satellite Communication Engineering, Second Edition* serves as a textbook for students and a resource for space agencies and relevant industries. *Solution Manual for Problems in Communication Theory, Transmission of Waveforms and Digital Information* David J. Sakrison, 1968. *Satellite Communications, 2nd Ed* Pratt, 2006-05 Market_Desc: Students and Instructors in Electrical Engineering. Special Features: Includes chapters on orbital mechanics, spacecraft construction, satellite path, radio wave propagation, modulation techniques, multiple access, and a detailed analysis of the communications link. About The Book: *Satellite Communications* gives the reader a thorough knowledge of the subject by going on to cover orbits, propagation, and the equipment that comprises a working system. The authors go beyond the standard treatment of ideal channels to deal with the problems associated with transmitting digitally modulated signals through real satellites and earth stations.

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