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Manual Of Satellite Communication

10 o C S min E S max S max = geostationary satellite position with

maximum slant range to earth station S min = geostationary satellite

position with minimum slant range to earth station E = earth station

C = center of earth r e = earth radius = 6378.137 km = CE h s =

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height of satellite = ES min = 35,786.03 km 2- 12 Part (i) By the law of sines,  $CS \max / \sin 100^\circ = CE / \sin \theta$  giving  $(35,786.03 + 6378.137) / \sin 100^\circ = 6378.137 / \sin \theta$  and thus  $\sin \theta = (6378.137) / 42,164.167 = 0.1489710$  and so ...

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The highest Doppler shift would be observed in the plane of the

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satellite at the orbital height of the satellite: the satellite would be coming directly at the observer or directly 2- 3 away from the observer. The maximum Doppler shift would therefore be the sum of these two values. The orbital velocity was calculated in question 2 as 7,713.066 m/s. Using equation (2.44a),  $f / f_T = V_T / v_p$ , where  $f$  is the Doppler frequency,  $f_T$  is the frequency of the transmitter at rest,  $V_T$  is the component of ...

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This second edition of Satellite Communications is a revised, updated, and improved version of the first edition (Van Nostrand,

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1984) and has been extended to include many newer topics that are rapidly becoming important in modern and next-generation satellite systems. The first half of the book again covers the basics of satellite links, but has been updated to include additional areas such as Global Positioning and deep space satellites, dual polarization, multiple beaming, advanced satellite electronics, frequency synthesizers, and digital frequency generators. The second half of the book is all new, covering frequency and beam hopping, on-board processing, EHF and optical cross links, and mobile satellites and VSAT systems. All of these latter topics figure to be important aspects of satellite systems and space platforms of the twenty-first century. As in the first edition, the objective of the new edition is to present a unified approach to satellite communications, helping the reader to become familiar with the terminology, models, analysis

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procedures, and evolving design directions for modem and future satellites. The presentation stresses overall system analysis and block diagram design, as opposed to complicated mathematical or physics descriptions. (Backup mathematics is relegated to the appendices where a reader can digest the detail at his own pace. ) The discussion begins with the simplest satellite systems and builds to the more complex payloads presently being used.

Provides an invaluable, detailed and up-to-date coverage of atmospheric effects and their impact on satellite communications systems design and performance. Significant progress has been made in the last decade in the understanding and modelling of propagation effects on radio wave propagation in the bands utilized for satellite communications. This book provides a comprehensive

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description and analysis of all atmospheric effects of concern for today's satellite systems, and the tools necessary to design the links and to evaluate system performance. This book will serve as an excellent reference to communications engineers, wireless network and system engineers, system designers and graduate students in satellite communications and related areas. Key features: Provides the state of the art in communications satellite link design and performance from the practicing engineer perspective – concise descriptions, specific procedures and comprehensive solutions Contains the calculations and tools necessary for evaluating system performance Provides a complete evaluation of atmospheric effects, modelling and prediction Focuses on the satellite free-space link as the primary element in the design and performance for satellite communications, and recognizes the importance of free-space

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considerations such as atmospheric effects, frequency of operation and adaptive mitigation techniques a solutions manual is available directly from the author (lippolit@gwu.edu)

Highlighting satellite and earth station design, links and communication systems, error detection and correction, and regulations and procedures for system modeling, integrations, testing, and evaluation, Satellite Communication Engineering provides a simple and concise overview of the fundamental principles common to information communications. It

The products that drive the wireless communication industry, such as cell phones and pagers, employ circuits that operate at radio and microwave frequencies. Following on from a highly successful first



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edition, the second edition provides readers with a detailed introduction to RF and microwave circuits. Throughout, examples from real-world devices and engineering problems are used to great effect to illustrate circuit concepts. \* Takes a top-down approach, describing circuits in the overall context of communication systems. \* Presents expanded coverage of waveguides and FT mixers. \* Discusses new areas such as oscillators design and digital communication. \*An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department.

The revised and updated sixth edition of *Satellite Communications Systems* contains information on the most recent advances related to satellite

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communications systems, technologies, network architectures and new requirements of services and applications. The authors – noted experts on the topic – cover the state-of-the-art satellite communication systems and technologies and examine the relevant topics concerning communication and network technologies, concepts, techniques and algorithms. New to this edition is information on internetworking with the broadband satellite systems, more intensive coverage of Ka band technologies, GEO high throughput satellite (HTS), LEO constellations and the potential to support the current new broadband Internet services as well as future developments for global information infrastructure. The authors offer details on digital communication systems and broadband networks in order to provide high-level researchers and professional engineers an authoritative reference. The companion

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website provides slides for instructors to teach and for students to learn. In addition, the book is designed in a user-friendly format.

This comprehensive introduction to Electronic Communications explores fundamental concepts and their state-of-the-art application in radio, telephone, facsimile transmission, television, satellite and fiber optic communications. It provides an explanatory as well as descriptive approach, avoids lengthy mathematical derivations and introduces the use of Mathcad for problem-solving in select areas.

In the last fifty years, extensive studies have been carried out worldwide in the field of adaptive array systems. However, far from being a mature technology with little research left to tackle, there is seemingly unlimited scope to develop the fundamental

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characteristics and applications of adaptive antennas for future 3G and 4G mobile communications systems, ultra wideband wireless and satellite and navigation systems, and this informative text shows you how! Provides an accessible resource on adaptive array fundamentals as well as coverage of adaptive algorithms and advanced topics Analyses the performance of various wideband beamforming techniques in wideband array processing Comprehensively covers implementation issues related to such elements as circular arrays, channel modelling and transmit beam forming, highlighting the challenges facing a designer during the development phase Supports practical implementation considerations with detailed case studies on wideband arrays, radar, sonar and biomedical imaging, terrestrial wireless systems and satellite communication systems Includes examples and problems

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throughout to aid understanding Companion website features Solutions Manual, Matlab Programs and Electronic versions of some figures Adaptive Array Systems is essential reading for senior undergraduate and postgraduate students and researchers in the field of adaptive array systems. It will also have instant appeal to engineers and designers in industry engaged in developing and deploying the technology. This volume will also be invaluable to those working in radar, sonar and bio-medical applications.

Antennas and propagation are of fundamental importance to the coverage, capacity and quality of all wireless communication systems. This book provides a solid grounding in antennas and propagation, covering terrestrial and satellite radio systems in both mobile and fixed contexts. Building on the highly successful first

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edition, this fully updated text features significant new material and brand new exercises and supplementary materials to support course tutors. A vital source of information for practising and aspiring wireless communication engineers as well as for students at postgraduate and senior undergraduate levels, this book provides a fundamental grounding in the principles of antennas and propagation without excessive recourse to mathematics. It also equips the reader with practical prediction techniques for the design and analysis of a very wide range of common wireless communication systems. Including: Overview of the fundamental electromagnetic principles underlying propagation and antennas. Basic concepts of antennas and their application to specific wireless systems. Propagation measurement, modelling and prediction for fixed links, macrocells, microcells, picocells and megacells

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Narrowband and wideband channel modelling and the effect of the channel on communication system performance. Methods that overcome and transform channel impairments to enhance performance using diversity, adaptive antennas and equalisers. Key second edition updates: New chapters on Antennas for Mobile Systems and Channel Measurements for Mobile Radio Systems. Coverage of new technologies, including MIMO antenna systems, Ultra Wideband (UWB) and the OFDM technology used in Wi-Fi and WiMax systems. Many new propagation models for macrocells, microcells and picocells. Fully revised and expanded end-of-chapter exercises. The Solutions Manual can be requested from [http://www.wiley.com/go/saunders\\_antennas\\_2e](http://www.wiley.com/go/saunders_antennas_2e)

Thorough coverage of basic digital communication system

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principles ensures that readers are exposed to all basic relevant topics in digital communication system design. The use of CD player and JPEG image coding standard as examples of systems that employ modern communication principles allows readers to relate the theory to practical systems. Over 180 worked-out examples throughout the book aids readers in understanding basic concepts. Over 480 problems involving applications to practical systems such as satellite communications systems, ionospheric channels, and mobile radio channels gives readers ample opportunity to practice the concepts they have just learned. With an emphasis on digital communications, Communication Systems Engineering, Second Edition introduces the basic principles underlying the analysis and design of communication systems. In addition, this book gives a solid introduction to analog communications and a review of



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important mathematical foundation topics. New material has been added on wireless communication systems—GSM and CDMA/IS-94; turbo codes and iterative decoding; multicarrier (OFDM) systems; multiple antenna systems. Includes thorough coverage of basic digital communication system principles—including source coding, channel coding, baseband and carrier modulation, channel distortion, channel equalization, synchronization, and wireless communications. Includes basic coverage of analog modulation such as amplitude modulation, phase modulation, and frequency modulation as well as demodulation methods. For use as a reference for electrical engineers for all basic relevant topics in digital communication system design.

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This textbook takes a unified view of the fundamentals of wireless communication and explains cutting-edge concepts in a simple and intuitive way. An abundant supply of exercises make it ideal for graduate courses in electrical and computer engineering and it will also be of great interest to practising engineers.

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