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Satellite Communication System Engineering Notes

launched in 1960, was the world's first active repeater satellite. The first communications satellite was Sputnik 1. Put into orbit by the Soviet Union on October 4, 1957, it was equipped with an onboard radio-transmitter that worked on two frequencies: 20.005 and 40.002 MHz.

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Satellite Communication System Engineering Notes

A satellite is a body that moves around another body in a particular path. A communication satellite is nothing but a microwave repeater station in space. It is helpful in telecommunications, radio and television along with internet applications. A repeater is a circuit, which increases the strength of the received signal and then transmits it.

Satellite Communication - Introduction - Tutorialspoint

If communication takes place between any two earth stations through a satellite, then it is called as satellite communication. In this communication, electromagnetic waves are used as carrier signals. These signals carry the information such as voice, audio, video or any other data between ground and space and vice-versa.

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The first edition of Satellite Communications Systems Engineering (Wiley 2008) was written for those concerned with the design and performance of satellite communications systems employed in fixed point to point, broadcasting, mobile, radio navigation, data relay, computer communications, and related satellite based applications. This welcome Second Edition continues the basic premise and enhances the publication with the latest updated information and new technologies developed since the publication of the first edition. The book is based on graduate level satellite communications course material and has served as the primary text for electrical engineering Masters and Doctoral level courses in satellite communications and related areas. Introductory to advanced engineering level students in electrical, communications and wireless network courses, and electrical engineers, communications engineers, systems engineers, and wireless network engineers looking for a refresher will find this essential text invaluable.

With The Global Trends In Communication And Data Networks, Leading To Idn And Isdn, There Is A Special Need For A Comprehensive Book On Thestate-Of-The-Art In Digital Communication. In The Absence Of Such A Reference Book, Most Of Our Senior Professionals And Academics Find It Very Hard To Keep Themselves Abreast Of The Recent Developments Leading To Information Revolution And Digital Revolution. The Present Volume Is An Attempt To Fill This Gap.The Book Consists Of Ten Chapters, And Discusses Such Topics As, Principles Of Digital Modulation, Source Encoding, Data Transmission Through Cables And Optical Fibres, Digital Radio Including Satellite Communication, Data Networks And Digital Switching, Information Theory

And Coding, Survival Of Communication Including Spread Spectrum Techniques, And Future Trends Including Isdn. Conceptually The Chapters Attempt To Discuss From A System Point Of View, A Total Digital Communication Network, E.G., Idn, And The Total Range Of Signal Processing Techniques Has Been Presented In Subsequent Chapters, Thus Maintaining A Continuity Of Thought From End-To-End. The Book Is, Therefore, Addressed To Both Professionals In Telecommunications And Senior Students In This Area.

This book constitutes the refereed post-conference proceedings of the 6th International Conference on Personal Satellite Services, PSATS 2014, held in Genova, Italy, in July 2014. The 10 revised full papers presented were carefully reviewed and present the latest advances in the next generation satellite networking and communication systems.

This book gathers the latest advances, innovations, and applications in the field of energy, environmental and construction engineering, as presented by international researchers and engineers at the International Scientific Conference Energy, Environmental and Construction Engineering, held in St. Petersburg, Russia on November 19-20, 2020. It covers highly diverse topics, including BIM; bridges, roads and tunnels; building materials; energy efficient and green buildings; structural mechanics; fluid mechanics; measuring technologies; environmental management; power consumption management; renewable energy; smart cities; and waste management. The contributions, which were selected by means of a rigorous international peer-review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.

Since the publication of the best-selling first edition of The Satellite Communication Applications Handbook, the satellite communications industry has experienced explosive growth. Satellite radio, direct-to-home satellite television, satellite telephones, and satellite guidance for automobiles are now common and popular consumer products. Similarly, business, government, and defense organizations now rely on satellite communications for day-to-day operations. This second edition covers all the latest advances in satellite technology and applications including direct-to-home broadcasting, digital audio and video, and VSAT networks. Engineers get the latest technical insights into operations, architectures, and systems components.

The volume presents high quality papers presented at the Second International Conference on Microelectronics, Computing & Communication Systems (MCCS 2017). The book discusses recent trends in technology and advancement in MEMS and nanoelectronics, wireless communications, optical communication, instrumentation, signal processing, image processing, bioengineering, green energy, hybrid vehicles, environmental science, weather forecasting, cloud computing, renewable energy, RFID, CMOS sensors, actuators, transducers, telemetry systems, embedded systems, and sensor network applications. It includes original papers based on original theoretical, practical, experimental, simulations, development, application, measurement, and testing. The applications and solutions discussed in the book will serve as a good reference material for future works.

The book covers fundamentals and basics of engineering communication theory. It presents right mix of explanation of mathematics (theory) and explanation. The book discusses both analogue communication and digital communication in details. It covers the subject of 'classical' engineering communication starting from the very basics of the subject to the beginning of more advanced areas. It also covers all the basic mathematics which is required to read the text. It covers a two semester course as an undergraduate text and some topics in master's course as well.

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