

Digital Communication By Taub And Schilling Pdf Download

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Digital Communication By Taub And Schilling Pdf Download: A Comprehensive Guide

Digital communication is the process of transmitting and receiving information using digital signals, such as binary digits or pulses. Digital communication has many advantages over analog communication, such as higher bandwidth, lower noise, better security, and easier processing.

One of the most popular and widely used textbooks on digital communication is *Principles of Communication Systems* by Herbert Taub and Donald L. Schilling. This book covers the undergraduate syllabi of analog and digital communication and also gives the background required for advanced study on the subject. It provides a clear and readable tutorial style with thorough coverage of topics such as modulation, coding, multiplexing, synchronization, channel models, and wireless communication.

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Therefore, we recommend that you buy the original book from a trusted seller or borrow it from a library if you want to learn digital communication by Taub and Schilling. This way, you will not only support the authors but also get the best quality and accuracy of the content.

In this article, we will give you a brief overview of the main topics covered in *Principles of Communication Systems* by Taub and Schilling. The book is divided into four parts: Part I: Introduction to Communication Systems, Part II: Analog Communication Systems, Part III: Digital Communication Systems, and Part IV: Data Communication Systems.

Part I: Introduction to Communication Systems

This part introduces the basic concepts and terminology of communication systems, such as signals, spectra, bandwidth, power, noise, and information. It also explains the fundamental principles of modulation and demodulation, which are the processes of converting signals from one form to another for transmission and reception. The book covers various types of modulation techniques, such as amplitude modulation (AM), frequency modulation (FM), phase modulation (PM), and pulse modulation (PM).

Part II: Analog Communication Systems

This part deals with the analysis and design of analog communication systems, which use continuous signals to transmit information. The book discusses the performance and limitations of analog systems in terms of signal-to-noise ratio (SNR), distortion, interference, and bandwidth efficiency. It also covers the topics of amplitude modulation systems (AM), angle modulation systems (FM and PM), and multiplexing techniques (FDM and TDM).

Part III: Digital Communication Systems

This part focuses on the theory and practice of digital communication systems, which use discrete signals to transmit information. The book explains the advantages and challenges of digital systems over analog systems, such as higher reliability, lower cost, greater flexibility, and more complexity. It also covers the topics of sampling theorem, pulse code modulation (PCM), delta modulation (DM), quantization noise, source coding, channel coding, error control coding, digital modulation techniques (ASK, FSK, PSK, QAM), and synchronization.

Part IV: Data Communication Systems

This part explores the applications and issues of data communication systems, which use digital signals to transmit data between devices or networks. The book covers the topics of data transmission modes (serial and parallel), data communication interfaces (RS-232C and IEEE-488), data communication protocols (HDLC and SDLC), data link control (error detection and correction), medium access control (ALOHA and CSMA/CD), local area networks (Ethernet and Token Ring), and wide area networks (ISDN and ATM).

We hope this article has given you a glimpse of what you can learn from *Principles of Communication Systems* by Taub and Schilling. If you want to download the pdf version of this book for free, you can try the links we provided earlier . However, we strongly advise you to buy the original book from a reputable seller or borrow it from a library if you want to get the most out of this excellent textbook.

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