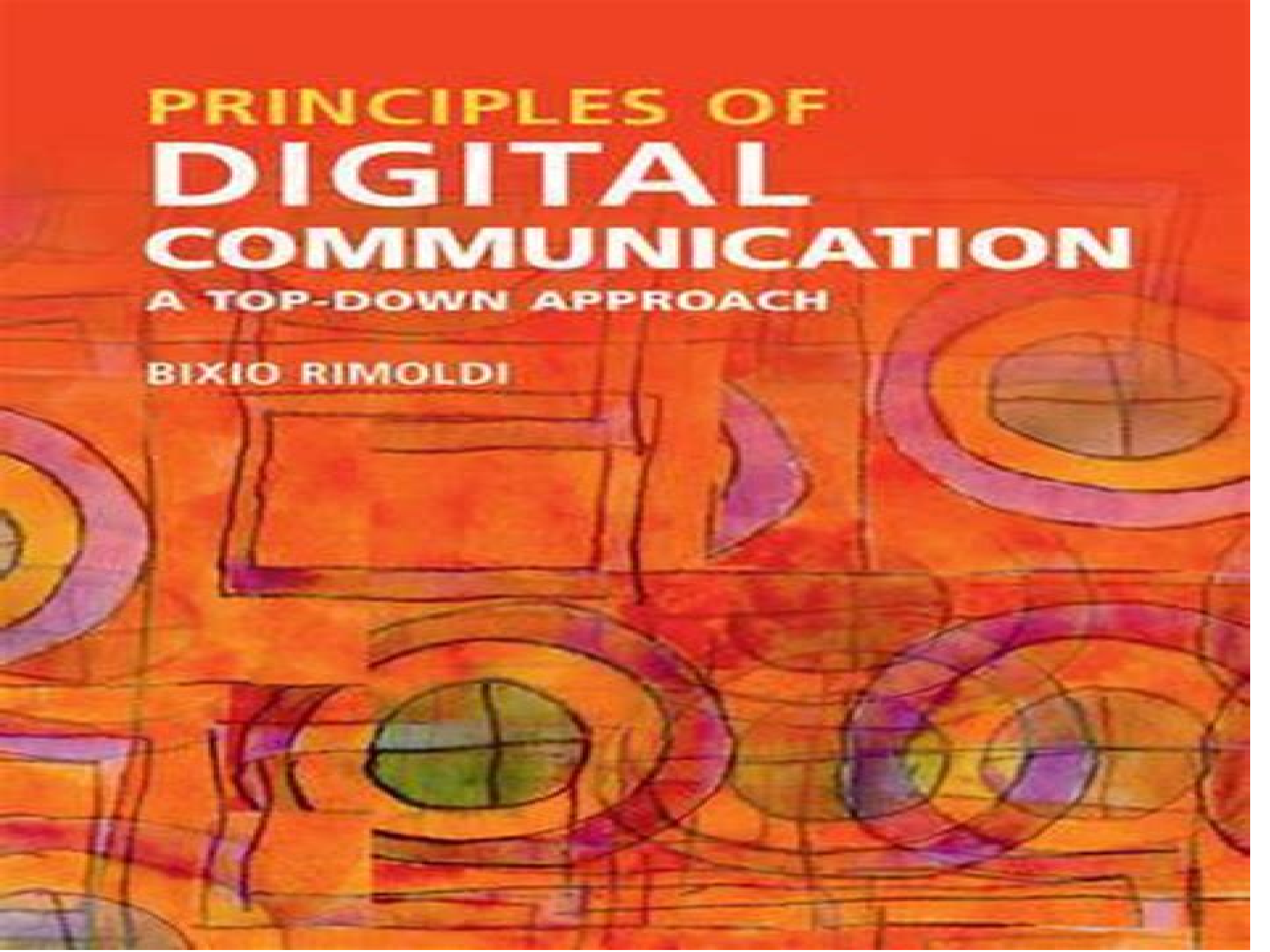


PRINCIPLES OF DIGITAL COMMUNICATION

A TOP-DOWN APPROACH

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Robert Gallager



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comprehensive and accessible text teaches the fundamentals of digital communication via a top down reversed approach specifically formulated for a one semester course The unique approach focuses on the transmission problem and develops knowledge of receivers before transmitters In doing so it cuts straight to the heart of the digital communication problem enabling students to learn quickly intuitively and with minimal background knowledge Beginning with the decision problem faced by a decoder and going on to cover receiver designs for different channels hardware constraints design trade offs convolutional coding Viterbi decoding and passband communication detail is given on system level design as well as practical applications in engineering All of this is supported by numerous worked examples homework problems and MATLAB simulation exercises to aid self study providing a solid basis for students to specialize in the field of digital communication and making it suitable for both traditional and flipped classroom teaching

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taking just one course on the subject Fundamentals of Digital Communications has coverage of turbo and LDPC codes in sufficient detail and clarity to enable hands on implementation and performance evaluation as well as just enough information theory to enable computation of performance benchmarks to compare them against Other unique features include space time communication and geometric insights into noncoherent communication and equalization An Introduction to Principles of Digital Comm. Engineering P. Sri Hari,2000 *An Introduction to Principles of Digital Communication Engineering* P. Sri Hari,2005-08-01 *Principles of digital communication and coding* Andrew J. Viterbi,1979 **Digital Communication** Apurba Das,2010-08-02 Digital Communications presents the theory and application of the philosophy of Digital Communication systems in a unique but lucid form The book inserts equal importance to the theory and application aspect of the subject whereby the authors selected a wide class of problems The Salient features of the book are 1 The foundation of Fourier series Transform and wavelets are introduces in a unique way but in lucid language 2 The application area is rich and resemblance to the present trend of research as we are attached with those areas professionally 3 Elegant exercise section is designed in such a way that the readers can get the flavor of the subject and get attracted towards the future scopes of the subject 4 Unparallel tabular flow chart based and pictorial methodology description will be there for sustained impression of the proposed design algorithms in mind **Theory and Design of Digital Communication Systems** Tri T. Ha,2010-10-28 Providing the underlying principles of digital communication and the design techniques of real world systems this textbook prepares senior undergraduate and graduate students for the engineering practices required in industry Covering the core concepts including modulation demodulation equalization and channel coding it provides step by step mathematical derivations to aid understanding of background material In addition to describing the basic theory the principles of system and subsystem design are introduced enabling students to visualize the intricate connections between subsystems and understand how each aspect of the design supports the overall goal of achieving reliable communications Throughout the book theories are linked to practical applications with over 250 real world examples whilst 370 varied homework problems in three levels of difficulty enhance and extend the text material With this textbook students can understand how digital communication systems operate in the real world learn how to design subsystems and evaluate end to end performance with ease and confidence **Digital Communication** John R. Barry,Edward A. Lee,David G. Messerschmitt,2012-12-06 This book concerns digital communication Specifically we treat the transport of bit streams from one geographical location to another over various physical media such as wire pairs coaxial cable optical fiber and radio We also treat multiple access channels where there are potentially multiple transmitters and receivers sharing a common medium Ten years have elapsed since the Second Edition and there have been remarkable advances in wireless communication including cellular telephony and wireless local area networks This Third Edition expands treatment of communication theories underlying wireless and especially advanced techniques involving multiple antennas

which turn the traditional single input single output channel into a multiple input multiple output MIMO channel. This is more than a trivial advance as it stimulates many advanced techniques such as adaptive antennas and coding techniques that take advantage of space as well as time. This is reflected in the addition of two new chapters: one on the theory of MIMO channels and the other on diversity techniques for mitigating fading. The field of error control coding has similarly undergone tremendous changes in the past decade brought on by the invention of turbo codes in 1993 and the subsequent rediscovery of Gallager's low density parity check codes. Our treatment of error control coding has been rewritten to reflect the current state of the art. Other materials have been reorganized and reworked and three chapters from the previous edition have been moved to the book's Web site to make room.

Principles of Communication Engineering M.L. Anand, 2021-10-01

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