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2017. ... Digital Communications - Fundamentals and Applications, 2nd edn, Upper Saddle River, NJ: Prentice Hall PTR, ... and Muszynski, P., "ETSI WCDMA for UMTS," in IEEE 5th International Symposium on Spread Spectrum Techniques and Applications, Sun City, South Africa

An Overview of Digital Communication Systems (Chapter 1 ...
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3.1.1 Error-Performance Degradation in Communication Systems 100 3.1.2 Demodulation and Detection 101 3.1.3 A Vectorial View of Signals and Noise 105 3.1.4 The Basic SNR Parameter for Digital Communication Systems 112 3.1.5 Why E_b/N_0 Is a Natural Figure of Merit 113

Digital Communications : Fundamentals and Applications
Digital Communication Fundamentals and Applications. Writer: Bernard Sklar. Published Year: 2001. Publisher: Prentice Hall. ISBN: 0-13-084788-7. Page: 953 Pages. Size: 74 MB (Clear Print) 6 MB (Modified Print) The book develops these techniques in the context of a unified structure. The structure, in block diagram form, appears at the beginning of each chapter; blocks in the diagram are emphasized, when appropriate, to correspond to the subject of that chapter.

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The renowned communications theorist Robert Gallager brings his lucid writing style to the study of the fundamental system aspects of digital communication for a one-semester course for graduate students. With the clarity and insight that have characterized his teaching and earlier textbooks, he develops a simple framework and then combines this with careful proofs to help the reader understand modern systems and simplified models in an intuitive yet precise way. A strong narrative and links between theory and practice reinforce this concise, practical presentation. The book begins with data compression for arbitrary sources. Gallager then describes how to modulate the resulting binary data for transmission over wires, cables, optical fibers, and wireless channels. Analysis and intuitive interpretations are developed for channel noise models, followed by coverage of the principles of detection, coding, and decoding. The various concepts covered are brought together in a description of wireless communication, using CDMA as a case study.

"This new title covers basic topics such as transmitters, fibers, amplifiers and receivers and details new developments such as nonlinear fiber-optic systems and nonlinear phase noise. Starting with a review of electromagnetics and optics, including Faraday's law and Maxwell's equation, it then moves on to provide information on optical fiber transmissions, laser oscillations, wave particle density and semiconductor laser diodes. This is followed up with chapters covering optical sources, optical modulators, optical receivers, including coherent receivers, and optical amplifiers. The final part of the book discusses performance analysis, channel multiplexing techniques, nonlinear effects and digital signal processing respectively"--

This is a concise presentation of the concepts underlying the design of digital communication systems, without the detail that can overwhelm students. Many examples, from the basic to the cutting-edge, show how the theory is used in the design of modern systems and the relevance of this theory will motivate students. The theory is supported by practical algorithms so that the student can perform computations and simulations. Leading edge topics in coding and

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wireless communication make this an ideal text for students 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.

Introduction to Digital Communications explores the basic principles in the analysis and design of digital communication systems, including design objectives, constraints and trade-offs. After portraying the big picture and laying the background material, this book lucidly progresses to a comprehensive and detailed discussion of all critical elements and key functions in digital communications. The first undergraduate-level textbook exclusively on digital communications, with a complete coverage of source and channel coding, modulation, and synchronization. Discusses major aspects of communication networks and multiuser communications Provides insightful descriptions and intuitive explanations of all complex concepts Focuses on practical applications and illustrative examples. A companion Web site includes solutions to end-of-chapter problems and computer exercises, lecture slides, and figures and tables from the text

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