

Digital Communications Barry Lee

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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

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which is the best book in digital communication? | Page 2 ...

The field of digital communication has evolved rapidly in the past few decades, with commercial applications proliferating in wireline communication networks (e.g., digital subscriber loop, cable, fiber optics), wireless communication (e.g., cell phones and wireless local area networks), and storage media (e.g., compact discs, hard drives).

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On the other hand, digital communication uses digital signals to transmit and receive data (Barry, Lee & Messerschmitt, 2012). Usually, analog communication is most appropriate for short-distance communication. However, with analog modulation techniques such as angle modulation and amplitude modulation, it can be used for long-distance communication. The formation of a digital signal is usually done through the sampling of the analog signal. By sampling and quantifying the analog signals ...

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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.

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 waves. Further, we cover the multiplexing, multiple access, and synchronization issues relevant to constructing communication networks that simultaneously transport bit streams from many users. The material in this book is thus directly relevant to the design of a multitude of digital communication systems, including for example local and metropolitan area data networks, voice and video telephony systems, the integrated services digital network (ISDN), computer communication systems, voiceband data modems, and satellite communication systems. We extract the common principles underlying these and other applications and present them in a unified framework. This book is intended for designers and would-be designers of digital communication systems. To limit the scope to manageable proportions we have had to be selective in the topics covered and in the depth of coverage. In the case of advanced information, coding, and detection theory, for example, we have not tried to duplicate the in-depth coverage of many advanced textbooks, but rather have tried to cover those aspects directly relevant to the design of digital communication systems.

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 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.

The demand for wireless access to network services is growing in virtually all communications and computing applications. Once accustomed to unteathered operation, users resent being tied to a desk or a fixed location, but will endure it when there is some substantial benefit, such as higher resolution or bandwidth. Recent technological advances, however, such as the scaling of VLSI, the development of low-power circuit design techniques and architectures, increasing battery energy capacity, and advanced displays, are rapidly improving the capabilities of wireless devices. Many of the technological advances contributing to this revolution pertain to the wireless medium itself. There are two viable media: radio and optical. In radio, spread-spectrum techniques allow different users and services to coexist in the same bandwidth, and new microwave frequencies with plentiful bandwidth become viable as the speed of the supporting low-cost electronics increases. Radio has the advantage of being available ubiquitously indoors and outdoors, with the possibility of a seamless system infrastructure that allows users to move between the two. There are unanswered (but likely to be benign) biological effects of microwave radiation at higher power densities. Optical communications is enhanced by advances in photonic devices, such as semiconductor lasers and detectors. Optical is primarily an indoor technology - where it need not compete with sunlight - and offers advantages such as the immediate availability of a broad bandwidth without the need for regulatory approval.

Based on the popular Artech House classic, Digital Communication Systems Engineering with Software-Defined Radio, this book provides a practical approach to quickly learning the software-defined radio (SDR) concepts needed for work in the field. This up-to-date volume guides readers on how to quickly prototype wireless designs using SDR for real-world testing and experimentation. This book explores advanced wireless communication techniques such as OFDM, LTE, WLA, and hardware targeting. Readers will gain an understanding of the core concepts behind wireless hardware, such as the radio frequency front-end, analog-to-digital and digital-to-analog converters, as well as various processing technologies. Moreover, this volume includes chapters on timing estimation, matched filtering, frame synchronization message decoding, and source coding. The orthogonal frequency division multiplexing is explained and details about HDL code generation and deployment are provided. The book concludes with coverage of the WLAN toolbox with OFDM beacon reception and the LTE toolbox with downlink reception. Multiple case studies are provided throughout the book. Both MATLAB and Simulink source code are included to assist readers with their projects in the field.

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.

What are we to make of our digital social lives and the forces that shape it? Should we feel fortunate to experience such networked connectivity? Are we privileged to have access to unimaginable amounts of information? Is it easier to work in a digital global economy? Or is our privacy and freedom under threat from digital surveillance? Our security and welfare being put at risk? Our politics undermined by hidden algorithms and misinformation? Written by a distinguished group of leading scholars from around the world, the Routledge Handbook of Digital Media and Communication provides a comprehensive, unique, and multidisciplinary exploration of this rapidly growing and vibrant field of study. The Handbook adopts a three-part structural framework for understanding the sociocultural impact of digital media: the artifacts or physical devices and systems that people use to communicate; the communicative practices in which they engage to use those devices, express themselves, and share meaning; and the organizational and institutional arrangements, structures, or formations that develop around those practices and artifacts. Comprising a series of essay-chapters on a wide range of topics, this volume crystallizes current knowledge, provides historical context, and critically articulates the challenges and implications of the emerging dominance of the network and normalization of digitally mediated relations. Issues explored include the power of algorithms, digital currency, gaming culture, surveillance, social networking, and connective mobilization. More than a reference work, this Handbook delivers a comprehensive, authoritative overview of the state of new media scholarship and its most important future directions that will shape and animate current debates.

Did you know you can read online reviews of your church? How often have you talked about “reaching people where they are”—and realized that much of the time, they are on the Internet? We’ve been living in a digital world for quite a while now. Justin Wise speaks about social media as this generation's printing press—a revolutionary technology that can spread the gospel farther and faster than we can imagine. It’s time to take what we know (and admit what we don’t know) and learn together how to move forward as the church. Are you ready to think theologically about this digital age and reach people in a new way?

Journalism is in transition. Irrevocable decisions are being made, often based on flimsy evidence, which could change not only the future of journalism, but also the future of democracy. This book, based on extensive research, provides the opportunity to reflect upon these decisions and considers how journalism could change for the better and for the good of democracy. It covers: the business landscape work and employment the regulatory framework audiences and interaction the impact of technology on practices and content ethics in a converged world The book analyses research in both national and local journalism, broadcast, newspaper and online journalism, broadsheet and tabloid, drawing comparisons between the different outlets in the field of news journalism, making this essential reading for scholars and students of journalism and media studies.

Attract, engage, and inspire your customers with an "Optimize and Socialize" content marketing strategy Optimize is designed to give readers a practical approach to integrating search and social media optimization with content marketing to boost relevance, visibility, and customer engagement. Companies, large and small, will benefit from the practical planning and creative content marketing tactics in this book that have been proven to increase online performance across marketing, public relations, and customer service. Learn to incorporate essential content optimization and social media engagement principles thereby increasing their ability to acquire and engage relevant customers online. Optimize provides insights from Lee Odden, one of the leading

authorities on Content and Online Marketing. This book explains how to: Create a blueprint for integrated search, social media and content marketing strategy Determine which creative tactics will provide the best results for your company Implement search and social optimization holistically in the organization Measure the business value of optimized and socialized content marketing Develop guidelines, processes and training to scale online marketing success Optimize offers a tested approach for a customer-centric and adaptive online marketing strategy that incorporates the best of content, social media marketing, and search engine optimization tactics.

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