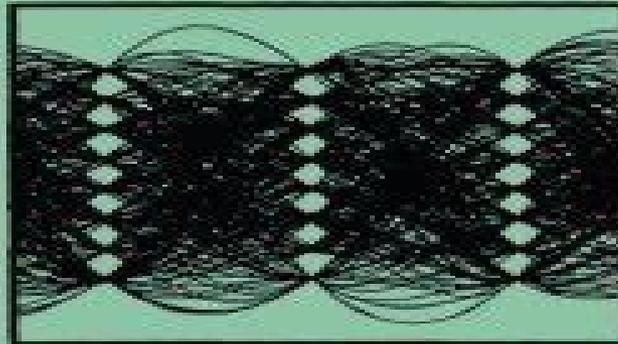


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— **Second Edition** —
SOLUTIONS MANUAL



Edward A. Lee
David G. Messerschmitt



Kluwer Academic Publishers

Digital Communication Solutions 2nd Edition

Feng Ouyang



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Digital Communication 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 waves. Further we cover the 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, digital CATV distribution, digital cellular and radio systems, the narrowband and broadband 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.

Digital Communication Edward A. Lee, David G. Messerschmitt, 2012-02-01 This supplement contains worked-out solutions to the chapter-end problem sets found in *Digital Communication* Second Edition. ISBN 0 7923 9391 0

Digital Communication Edward A. Lee, David G. Messerschmitt, 1988-07-14 This book is for designers and would be designers of digital communication systems. The general approach of this book is to extract the common principles underlying a range of media and applications and present them in a unified framework. *Digital Communication* is relevant to the design of a variety of systems including voice and video, digital cellular telephone, digital CATV distribution, wireless LANs, digital subscriber loop, metallic Ethernet, voiceband data modems, and satellite communication systems. New in this Third Edition: New material on recent advances in wireless communications, error control coding, and multi-user communications has been added. As a result, two new chapters have been added: one on the theory of MIMO channels and the other on diversity techniques for mitigating fading. Error control coding has been rewritten to reflect the current state of the art. Chapters 6 through 9 from the Second Edition have been reorganized and streamlined to highlight pulse amplitude modulation, becoming the new Chapters 5 through 7. Readability is increased by relegating many of the more detailed derivations to appendices and exercise solutions, both of which are included in the book. Exercises, problems, and solutions have been revised and expanded. Three chapters from the previous edition have been moved to the book's Web site to make room for new material.

Digital Communications and Signal Processing (Second Edition) Ke Vāsudēvan, 2010

Digital Communication for Practicing Engineers Feng Ouyang, 2019-08-28 Offers concise practical knowledge on modern communication systems to help students transition smoothly into the workplace and beyond. This book presents the most

relevant concepts and technologies of today's communication systems and presents them in a concise and intuitive manner. It covers advanced topics such as Orthogonal Frequency Division Multiplexing (OFDM) and Multiple Input Multiple Output (MIMO) Technology which are enabling technologies for modern communication systems such as WiFi including the latest enhancements and LTE Advanced. Following a brief introduction to the field, Digital Communication for Practicing Engineers immerses readers in the theories and technologies that engineers deal with. It starts off with Shannon Theorem and Information Theory before moving on to basic modules of a communication system including modulation, statistical detection, channel coding, synchronization and equalization. The next part of the book discusses advanced topics such as OFDM and MIMO and introduces several emerging technologies in the context of 5G cellular system radio interface. The book closes by outlining several current research areas in digital communications. In addition, this text breaks down the subject into self-contained lectures which can be read individually or as a whole. It focuses on the pros and cons of widely used techniques while providing references for detailed mathematical analysis. It follows the current technology trends including advanced topics such as OFDM and MIMO. It touches on content that is not usually contained in textbooks such as cyclo-stationary symbol timing recovery, adaptive self-interference canceler and Tomlinson-Harashima precoder. It includes many illustrations, homework problems and examples. Digital Communication for Practicing Engineers is an ideal guide for graduate students and professionals in digital communication looking to understand work with and adapt to the current and future technology.

Principles of Digital and Analog Communications J. D. Gibson, 1993 Digital Communications Mehmet Safak, 2017-01-09. This is a modern textbook on digital communications and is designed for senior undergraduate and graduate students whilst also providing a valuable reference for those working in the telecommunications industry. It provides a simple and thorough access to a wide range of topics through use of figures, tables, examples and problem sets. The author provides an integrated approach between RF engineering and statistical theory of communications. Intuitive explanations of the theoretical and practical aspects of telecommunications help the reader to acquire a deeper understanding of the topics. The book covers the fundamentals of antennas, channel modelling, receiver system noise, A/D conversion of signals, PCM baseband transmission, optimum receiver, modulation techniques, error control coding, OFDM, fading channels, diversity and combining techniques, MIMO systems and cooperative communications. It will be an essential reference for all students and practitioners in the electrical engineering field.

Digital Communication John R. Barry, Edward A. Lee, David G. Messerschmitt, 2004. This book is for designers and would be designers of digital communication systems. The general approach of this book is to extract the common principles underlying a range of media and applications and present them in a unified framework. Digital Communication is relevant to the design of a variety of systems including voice and video, digital cellular telephone, digital CATV, distribution, wireless LANs, digital subscriber loop, metallic Ethernet, voiceband data modems and satellite communication systems. New in this Third Edition: New material on

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