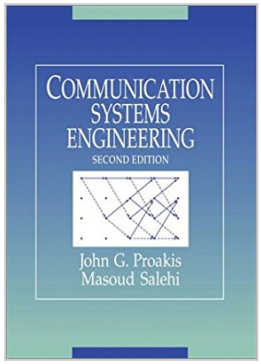

Communication Systems Engineering (2nd Edition)

By John G. Proakis, Masoud Salehi

Communication Systems Engineering (2nd Edition) By John G. Proakis, Masoud Salehi

Thorough coverage of basic digital communication system principles ensures that readers are exposed to all basic relevant topics in digital communication system design. The use of CD player and JPEG image coding standard as examples of systems that employ modern communication principles allows readers to relate the theory to practical systems. Over 180 worked-out examples throughout the book aids readers in understanding basic concepts. Over 480 problems involving applications to practical systems such as satellite communications systems, ionospheric channels, and mobile radio channels gives readers ample opportunity to practice the concepts they have just learned. With an emphasis on digital communications, *Communication Systems Engineering, Second Edition* introduces the basic principles underlying the analysis and design of communication systems. In addition, this book gives a solid introduction to analog communications and a review of important mathematical foundation topics. New material has been added on wireless communication systems—GSM and CDMA/IS-94; turbo codes and iterative decoding; multicarrier (OFDM) systems; multiple antenna systems. Includes thorough coverage of basic digital communication system principles—including source coding, channel coding, baseband and carrier modulation, channel distortion, channel equalization, synchronization, and wireless communications. Includes basic coverage of analog modulation such as amplitude modulation, phase modulation, and frequency modulation as well as demodulation methods. For use as a reference for electrical engineers for all basic relevant topics in digital communication system design.

Communication Systems Engineering (2nd Edition)

By John G. Proakis, Masoud Salehi

Communication Systems Engineering (2nd Edition) By John G. Proakis, Masoud Salehi

Thorough coverage of basic digital communication system principles ensures that readers are exposed to all basic relevant topics in digital communication system design. The use of CD player and JPEG image coding standard as examples of systems that employ modern communication principles allows readers to relate the theory to practical systems. Over 180 worked-out examples throughout the book aids readers in understanding basic concepts. Over 480 problems involving applications to practical systems such as satellite communications systems, ionospheric channels, and mobile radio channels gives readers ample opportunity to practice the concepts they have just learned. With an emphasis on digital communications, *Communication Systems Engineering, Second Edition* introduces the basic principles underlying the analysis and design of communication systems. In addition, this book gives a solid introduction to analog communications and a review of important mathematical foundation topics. New material has been added on wireless communication systems—GSM and CDMA/IS-94; turbo codes and iterative decoding; multicarrier (OFDM) systems; multiple antenna systems. Includes thorough coverage of basic digital communication system principles—including source coding, channel coding, baseband and carrier modulation, channel distortion, channel equalization, synchronization, and wireless communications. Includes basic coverage of analog modulation such as amplitude modulation, phase modulation, and frequency modulation as well as demodulation methods. For use as a reference for electrical engineers for all basic relevant topics in digital communication system design.

Communication Systems Engineering (2nd Edition) By John G. Proakis, Masoud Salehi Bibliography

- Sales Rank: #761221 in Books
- Published on: 2001-08-31
- Original language: English
- Number of items: 1
- Dimensions: 9.10" h x 1.80" w x 7.00" l, 3.15 pounds
- Binding: Paperback
- 801 pages

Editorial Review

Amazon.com Review
Introducing concepts in the analysis and design of analog and digital communication systems, this text is intended primarily for use in a senior or first-year graduate introductory course in communications. It assumes a strong background in signals and linear systems theory and elementary probability. The text provides a detailed coverage of communication systems topics, including source coding, channel coding, baseband and carrier modulation, channel distortion and equalization, synchronization, and spread-spectrum techniques. Because of the increasing prevalence of digital communication technologies, it gives significant emphasis to digital communication concepts and techniques. Although the text is more theoretical than applications-oriented, it contains over 180 worked-out examples and over 480 problems (many with answers) to aid the reader in applying the theory to real-world situations. The authors give extra attention to the more challenging concepts, making this an ideal text for those new to the subject.

From the Publisher
An introduction to the basic principles underlying the analysis and design of communication systems -- with an emphasis on digital communications.

From the Back Cover

Communication Systems Engineering, 2nd edition, offers comprehensive coverage of the basic principles in the analysis and design of modern communication systems, and review of important mathematical foundation topics. It is primarily intended for use as a text for a first course in communications, or as a comprehensive reference for practicing engineers.

This new edition of *Communication Systems Engineering* exposes the reader to relevant topics from digital communication system principles including, source coding, channel coding, baseband and carrier modulation, channel distortion, channel equalization, synchronization, and wireless communications.

New content changes for the second edition include:

- Coverage of the JPEG standard for image compression;
- Coverage Of OFDM and multicarrier modulation;
- Coverage of Turbo codes, product codes, the BCJR algorithm, and iterative codes
- A chapter on wireless communications (including new material on GSM and the IS-95 CDMA standard, as well as multiple antenna systems and space-time codes)

Read Communication Systems Engineering (2nd Edition) By John G. Proakis, Masoud Salehi for online ebook

Communication Systems Engineering (2nd Edition) By John G. Proakis, Masoud Salehi Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Communication Systems Engineering (2nd Edition) By John G. Proakis, Masoud Salehi books to read online.

Online Communication Systems Engineering (2nd Edition) By John G. Proakis, Masoud Salehi ebook PDF download

Communication Systems Engineering (2nd Edition) By John G. Proakis, Masoud Salehi Doc

Communication Systems Engineering (2nd Edition) By John G. Proakis, Masoud Salehi Mobipocket

Communication Systems Engineering (2nd Edition) By John G. Proakis, Masoud Salehi EPub

DBVP479JZ3I: Communication Systems Engineering (2nd Edition) By John G. Proakis, Masoud Salehi