The fourth edition of Information Transmission, Modulation, and Noise offers comprehensive coverage of communication systems and networks. While retaining the emphasis on point-to-point digital communications of the previous edition, this revision adds a basic presentation of data and circuit-switched (telephone) networks. The material uses local area networks (LANs) as the key example. The material is first presented in a qualitative fashion, with examples drawn from real networks and systems, to spur the reader's interest and show its relevance. A quantitative analysis then follows, in this case using queueing theory. Also included in the book is a discussion of modern lightwave (fiber optic) transmission systems. This section begins with a discussion of the DS3 (45 Mbits/s) transmission format, continues with a discussion of SONET, the new optical transmission format hierarchy, and is then followed by quantitative sections deriving performance limits for various types of coherent optical communication. The book also features material on convolutional coding, including a performance evaluation of Viterbi decoders, with an application example drawn from a recent space mission; trellis coding, Minimum Shift Keying (MSK); and QAM techniques applied to digital radio.


Communication systems an introduction to signals and noise in electrical communication, A. Bruce Carlson, 1968, Technology & Engineering, 470 pages.


Principles of Modern Communications Technology, A. Michael Noll, Jan 1, 2001, Technology & Engineering, 296 pages. This easy-to-comprehend book gives business professionals and students a complete introduction to communication technologies and systems, offering a solid understanding of the.

Telecommunications and the Computer, Volume 1, James Martin, 1976, Computer networks, 670 pages. This new edition of the Martin book, designed for computer professionals who have insufficient knowledge of telecommunications technology, covers major communications network.

Digital, Analog, and Data Communication, William Sinnema, Tom McGovern, Jan 1, 1986, Data transmission systems, 524 pages.


Signal processing: discrete spectral analysis, detection, and estimation, Mischa Schwartz, Leonard


Student-involved Assessment for Learning, Richard J. Stiggins, 2005, Education, 373 pages. This text for assessment courses focuses on showing prospective teachers how to develop assessments that accurately reflect student achievement and how to use those assessments.


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