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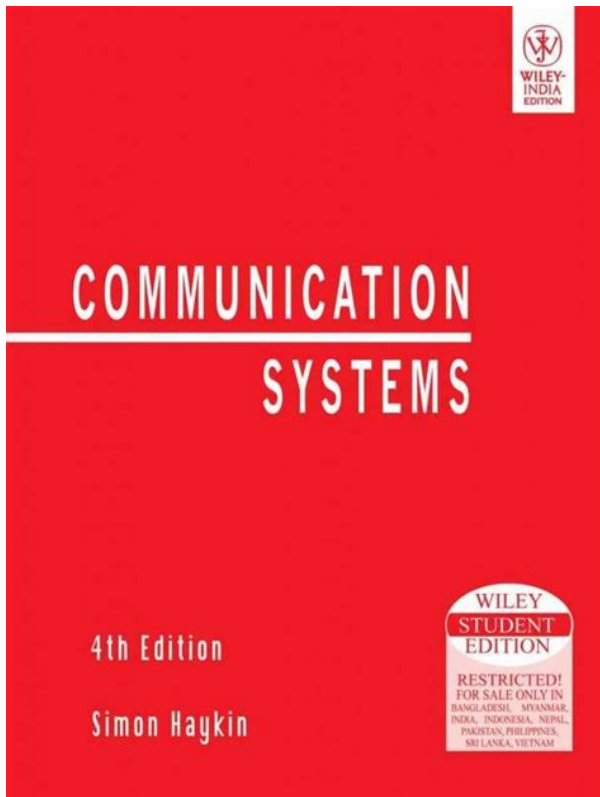
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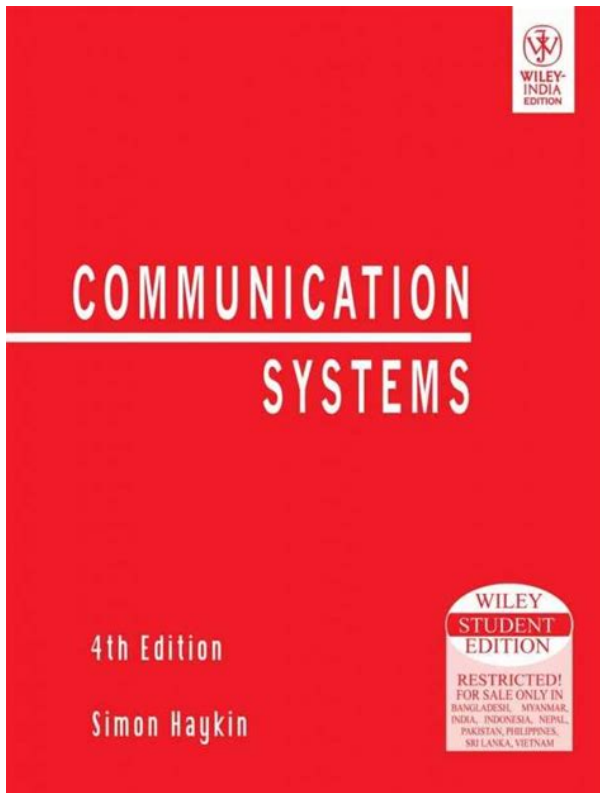
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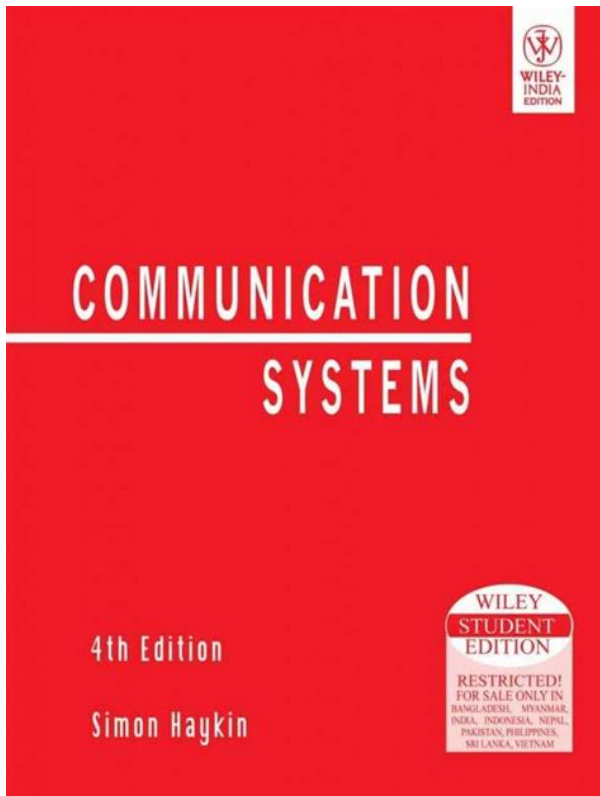
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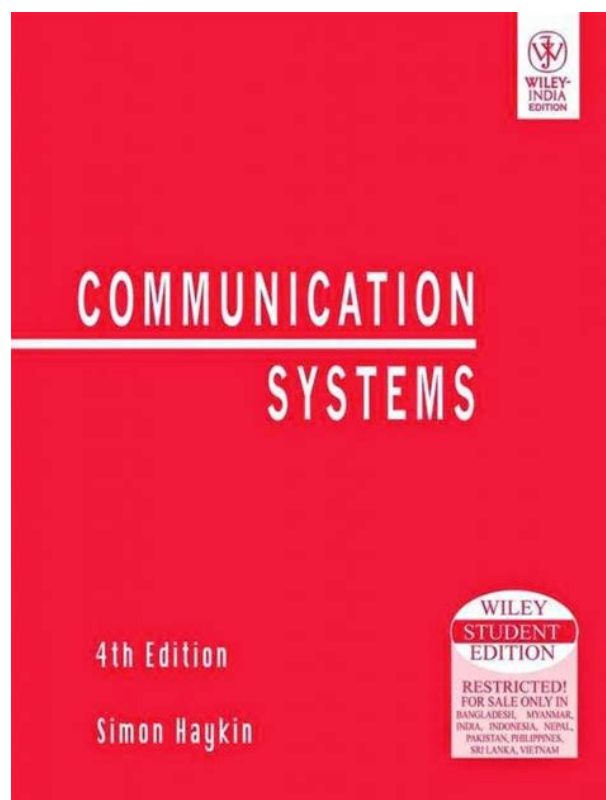
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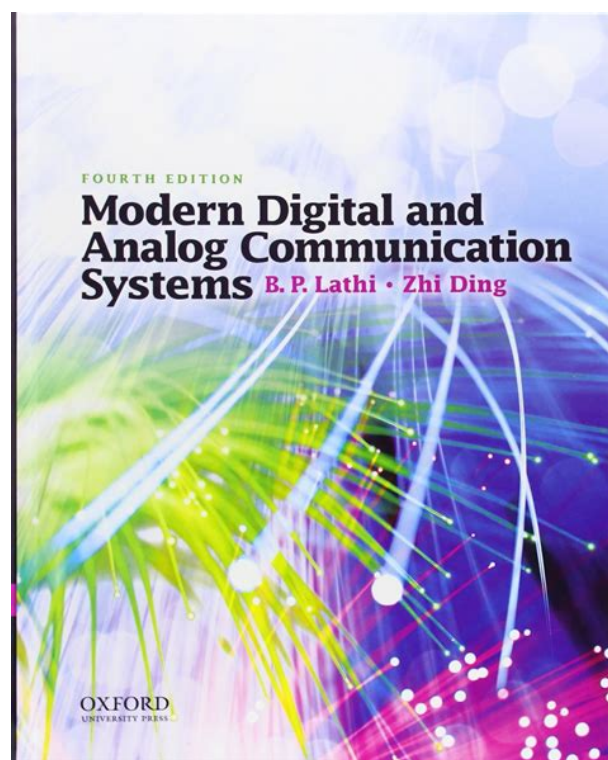


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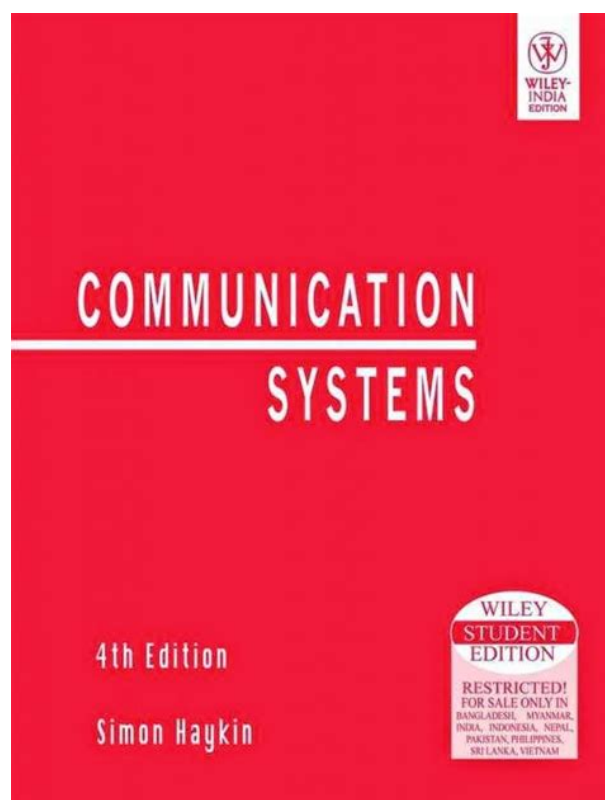
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Indeed, the list of applications involving the use of communication in one way or another is almost endless. BACKGROUND AND PREVIEW

In the most fundamental sense, communication involves implicitly the transmission of information from one point to another through a succession of processes, as described here. However, as the transmitted signal propagates along the channel, it is distorted due to channel imperfections. Moreover, noise and interfering signals originating from other sources are added to the channel output, with the result that the received signal is a corrupted version of the transmitted signal. The receiver has the task of operating on the received signal so as to reconstruct a recognizable form of the original message signal for a user.

There are two basic modes of communication.

1. Broadcasting, which involves the use of a single powerful transmitter and numerous receivers that are relatively inexpensive to build. Here information-bearing signals flow only in one direction.
2. Point-to-point communication, in which the communication process takes place over a link between a single transmitter and a receiver. Indeed, it is for this important reason that much of this book is devoted to the statistical underpinnings of communication systems. In so doing, we develop an exposition of the fundamental issues involved in the study of different communication methodologies and thereby provide a natural forum for their comparative evaluations.

Primary Communication Resources

In a communication system, two primary resources are employed: transmitted power and channel bandwidth. The transmitted power is the average power of the transmitted signal. The channel bandwidth is defined as the band of frequencies allocated for the transmission. We may therefore classify communication channels as nonpower limited or band limited.

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For example, the telephone channel is a typical bandlimited channel, whereas a space communication link or satellite channel is typically power limited.

When the spectrum of a message signal extends down to zero or low frequencies, we define the bandwidth of the signal as that upper frequency above which the spectral content of the signal is negligible and therefore unnecessary for transmitting information. For example, the average voice spectrum extends well beyond 10 kHz, though most of the average power is concentrated in the range of 100 to 600 Hz, and a band from 300 to 3100 Hz gives good articulation. Accordingly, we find that telephone circuits that respond well to this latter range of frequencies give quite satisfactory commercial telephone service.

Another important point that we have to keep in mind is the unavoidable presence of noise in a communication system. Noise refers to unwanted waves that tend to disturb the transmission and processing of message signals in a communication system. The sources of noise may be internal or external to the system.

A quantitative way to account for the effect of noise is to introduce signal-to-noise ratio (SNR) as a system parameter. For example, we may define the SNR at the receiver input as the ratio of the average signal power to the average noise power, both being measured at the same point. The customary practice is to express the SNR in decibels (dBs), defined as 10 times the logarithm to base 10 of the power ratio. For

example, signal-to-noise ratios of 10, 100, and 1,000 correspond to 10, 20, and 30 dB, respectively.

Sources of Information

The telecommunications environment is dominated by four important sources of information: speech, music, pictures, and computer data. A source of information may be characterized in terms of the signal that carries the information.

A signal is defined as a single-valued function of time that plays the role of the independent variable; at every instant of time, the function has a unique value. In the sequel, we elaborate on different sources of information.

Speech

Speech is the primary method of human communication. Specifically, the speech communication process involves the transfer of information from a speaker to a listener, which takes place in three successive stages:

- Production.** An intended message in the speaker's mind is represented by a speech signal that consists of sounds, i.e., pressure waves generated inside the vocal tract and whose arrangement is governed by the rules of language.
- Propagation.** The vocal tract consists of a tube of nonuniform cross-sectional area, beginning at the glottis, i.e., the opening between the vocal cords and ending at the lips. As the sound propagates along the vocal tract, the spectrum, i.e., frequency content, is shaped by the frequency selectivity of the vocal tract; this effect is somewhat similar to the resonance phenomenon observed in organ pipes. The important point to note here is that the power spectrum, i.e., the distribution of long-term average power versus frequency of speech approaches zero for zero frequency and reaches a peak in the neighborhood of a few hundred hertz. To put matters into proper perspective, however, we have to keep in mind that the hearing mechanism is very sensitive to frequency. Moreover, the type of communication system being considered has an important bearing on the band of frequencies considered to be essential for the communication process. For example, as mentioned previously, a bandwidth of 300 to 3100 Hz is considered adequate for commercial telephonic communication.

Music

The second source of information, music, originates from instruments such as the piano, violin, and flute. The note made by a musical instrument may last for a short time interval as in the pressing of a key on a piano, or it may be sustained for a long time interval as in the example of a flute player holding a prolonged note. Typically, music has two structures; a melodic structure consisting of a time sequence of sounds, and a harmonic structure consisting of a set of simultaneous sounds. However, a musical signal differs from a speech signal in that its spectrum occupies a much wider band of frequencies that may extend up to about 15 kHz. Accordingly, musical signals demand a much wider channel bandwidth than speech signals for their transmission.

Pictures

The third source of information, pictures; relies on the human visual system for its perception. The picture can be dynamic, as in television, or static, as in facsimile. Taking the case of television first, the pictures in motion are converted into electrical signals to facilitate their transport from the transmitter to the receiver. To do so, each complete picture is sequentially scanned. The scanning process is carried out in a TV camera. In a black-and-white TV, the camera contains optics designed to focus an image on a photocathode consisting of a large number of photosensitive elements. The charge pattern so generated on the photosensitive surface is scanned by an electron beam, thereby producing an output current that varies temporally with the way in which the brightness of the original picture varies spatially from one point to another. The resulting output current is called a video signal.

Sources of Information 3

The type of scanning used in television is a form of spatial sampling called raster scanning, which converts a two-dimensional image intensity into a one-dimensional waveform; it is somewhat analogous to the manner in which we read a printed page in that the scanning is performed from left to right on a line-by-line basis. In North American analog television, a picture is divided into 525 lines, which constitute a frame. The start and end of each field are also included in the figure. Field 1 is scanned first. The scanning spot of the TV

camera moves with constant velocity across each line of the field from left to right, and the image intensity at the center of the spot is measured; the scanning spot itself is partly responsible for local spatial averaging, of the image. When the end of a particular line is reached, the scanning spot quickly flies back in a horizontal direction to the start of the next line down in the field. This flyback is called the horizontal retrace. The scanning process described here is continued until the whole field has been accounted for. When this condition is reached, the scanning spot moves quickly in a vertical direction from the end of field 1 to the start of field 2. This second flyback is called the vertical retrace. During the horizontal and vertical retrace intervals, the picture tube is made inoperative by means of blanking pulses that are generated at the transmitter. Moreover, synchronization between the various scanning operations at both transmitter and receiver is accomplished by means of special pulses that are transmitted during the blanking periods; thus, the synchronizing pulses do not show on the reproduced picture. The reproduction quality of a TV picture is limited by two basic factors.

- Two concepts, basic to formulation of the parity check bits are included for the purpose of error control.

Methods for the generation of these codes and their decoding are discussed. The book also includes supplementary material in the form of six appendices. Appendix 3 presents an introductory treatment of the Bessel function and its modified. As mentioned previously, the primary purpose of this book is to provide a modern treatment of the material covered in the book is both broad and deep enough to satisfy a variety of needs. Acknowledgments. Angeles, Dr. Santosh Venkatesh University of Pennsylvania, Dr. Stephen G. Wilson University of Virginia, and Dr. Granville E. Ort University of Texas at Austin. I am grateful to Dr. Gordon Stuber for giving permission to reproduce Figure 6.32. I am indebted to Dr. Michael Moher Communications Research Centre, Ottawa. I am grateful to Dr. James Mazo Lucent Technologies, Murray Hill, Dr. Andrew Viterbi Qualcomm, San Diego, Ontario, and Dr. Robert Dony University of Guelph, Ontario; I thank them all for their helpful comments on selected sections in the book. Corrections and suggestions for improvements to the book made by Dr. Donald Wunsch, II University of Missouri are also appreciated. I am grateful to my graduate student Mashini Sellathurai McMaster University for proofreading of the page proofs. I am particularly grateful to my editor at Wiley, Bill Zobrist, for his strong support. Production Editor at Wiley, for her tireless effort in overseeing the production of the book. I thank Karen Tongish for her careful copyediting of the manuscript, Katrina Avery for last but by no means least, as always, I am grateful to my Technical Coordinator, Lola Brooks, for her tireless effort in typing the manuscript of the book. I also wish to thank Librarian, at McMaster University, for helping me on numerous occasions in tracing references. Simon Haykin, Ancaster, Ontario, January, 2000. Brennan Primary Communication Resources 3. Sources of Information 3.

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