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Autore	Freeman Roger L
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2.5 Introduction to Transporting Electrical Signals 2.5.1 Wire Pair; 2.5.2 Coaxial Cable Transmission; 2.5.3 Fiber-Optic Cable; 2.5.4 Radio Transmission; Review Exercises; References; Chapter 3 Quality of Service and Telecommunication Impairments; 3.1 Objective; 3.2 Quality of Service: Voice, Data, and Image; 3.2.1 Signal-to-Noise Ratio; 3.2.2 Voice Transmission; 3.2.3 Data Circuits; 3.2.4 Video (Television); 3.3 The Three Basic Impairments and How They Affect the End-User; 3.3.1 Amplitude Distortion; 3.3.2 Phase Distortion; 3.3.3 Noise; 3.4 Level; 3.4.1 Typical Levels; 3.5 Echo and Singing
Review Exercises References; Chapter 4 Transmission and Switching: Cornerstones of a Network; 4.1 Transmission and Switching Defined; 4.2 Traffic Intensity Defines the Size of Switches and the Capacity of Transmission Links; 4.2.1 Traffic Studies; 4.2.2 Discussion of the Erlang and Poisson Traffic Formulas; 4.2.3 Waiting Systems (Queueing); 4.2.4 Dimensioning and Efficiency; 4.2.5 Quantifying Data Traffic; 4.3 Introduction to Switching; 4.3.1 Basic Switching Requirements; 4.3.2 Concentration and Expansion; 4.3.3 The Essential Functions of a Local Switch; 4.3.4 Introductory Switching Concepts
4.3.5 Early Automatic Switching Systems 4.3.6 Common Control (Hard-Wired); 4.3.7 Stored Program Control; 4.3.8 Concentrators and Remote Switching; 4.4 Essential Concepts in Transmission; 4.4.1 Introduction; 4.4.2 Two-Wire and Four-Wire Transmission; 4.5 Introduction to Multiplexing; 4.5.1 Definition; 4.5.2 Frequency Division Multiplex; 4.5.3 Pilot Tones; 4.5.4 Comments on the Employment and Disadvantages of FDM Systems; Review Exercises; References; Chapter 5 Transmission Aspects of Voice Telephony; 5.1 Chapter Objective; 5.2 Definition of the Voice Channel; 5.2.1 The Human Voice
5.3 Operation of the Telephone Subnet

Sommario/riassunto

The Second Edition of this critically-acclaimed text continues the standard of excellence set in the first edition by providing a thorough introduction to the fundamentals of telecommunication networks without bogging you down in complex technical jargon or math. Although focusing on the basics, the book has been thoroughly updated with the latest advances in the field, including a new chapter on metropolitan area networks (MANs) and new sections on Mobile Fi, ZigBee and ultrawideband. You'll learn which choices are now available to an organization, how to evaluate them and how to devel

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