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Nota di contenuto	Fundamentals of Telecommunications; CONTENTS; Preface; Chapter 1 Introductory Concepts; 1.1 What Is Telecommunication?; 1.2 Telecommunication Will Touch Everybody; 1.3 Introductory Topics in Telecommunications; 1.3.1 End-Users, Nodes, and Connectivities; 1.3.2 Telephone Numbering and Routing; 1.3.3 The Use of Tandem Switches in a Local Area Connectivity; 1.3.4 Introduction to the Busy Hour and Grade of Service; 1.3.5 Simplex, Half-Duplex, and Full Duplex; 1.3.6 One-Way and Two-Way Circuits; 1.3.7 Network Topologies; 1.3.8 Variations in Traffic Flow; 1.4 Quality of Service 1.5 Standardization in Telecommunications 1.6 The Organization of the PSTN in the United States; 1.6.1 Points of Presence; Review Exercises; References; Chapter 2 Signals Convey Intelligence; 2.1 Chapter Objective; 2.2 Signals in Everyday Life; 2.3 Basic Concepts of Electricity for Communications; 2.3.1 Early Sources of Electrical Current; 2.3.2 The Electrical Telegraph: An Early Form of Long-Distance Communications; 2.3.3 What Is Frequency?; 2.4 Electrical Signals; 2.4.1 Introduction to Transmission; 2.4.2 Modulation; 2.4.3 Binary Digital Signals

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 Subset

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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