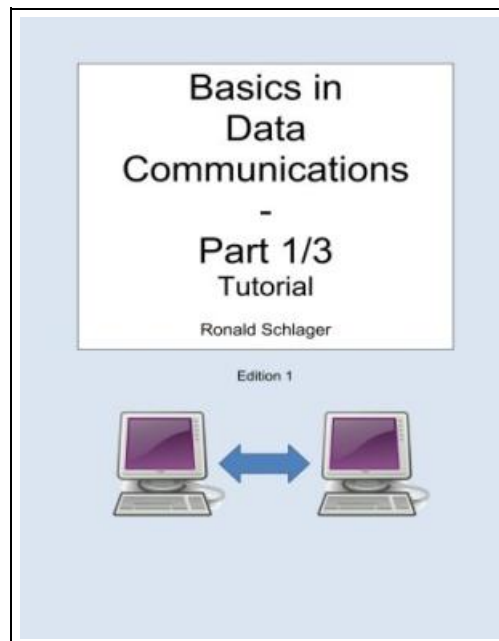


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Createspace Independent Publishing Platform, United States, 2014. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The book Basics in Datacommunications - Part 1/3 helps you to understand basic terms of the large field of information and communication technologies and the Open Systems Interconnection (OSI) model specified by International Organization for Standardization (ISO). This book is the seminar handout part 1 of 3 covering the first day of our 3-day seminar Basics in Data Communications . This seminar is intended for all interested in the basics of data communications technologies used in Local Area Networks (LAN) and Wide Area Networks (WAN). Part 1 (this part) covers basic terms in the fields of electricity, magnetism and basic data communication. The Open Systems Interconnection (OSI) Basic Reference Model is explained including little theoretical background and the tasks of the 7 layers. Part 2 covers Local Area Networks and part 3 covers Wide Area Networks. TOPICS of Part 1/3: Magnetism Magnetic Field - Inductance - Electro-magnetic Induction Electrostatics Electrostatic Field - Capacity Current Engineering Direct Current - Alternate Current - Frequency - Frequency Components Information Technology Numbering System (General, Decimal, Hexadecimal) - Coding (Why, What is a Code, Morse, Baudot, ASCII, Unicode) - Information, Message - Transmission (Voice, Data) - Multiplexing (Time Division, Frequency Division, Code Division, Wavelength Division) - Modulation (of analog and digital carriers signals) Communications Technology Why Networks? - Interfaces - Protocols - Connections - Connection Endpoints - Bit Transmission (asynchronous, synchronous) - Timing - Communication Procedures - Networks (Reach, Topology, Switching Technologies, Internet, Intranet, Extranet) - Standardization Bodies OSI Model History - Today - Terms (Open Systems Interconnection Basic Reference Model) - Architecture - Physical Media - Typical Tasks and Protocol Examples of Physical Layer, Data Link Layer, Network Layer,...



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