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Titolo	Advances in microwaves / edited by Leo Young
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Autore	Toutain Laurent
Titolo	Local networks and the internet [[electronic resource]] : from protocols to interconnection / / Laurent Toutain, Ana Minaburo
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Altri autori (Persone)	MinaburoAna
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references. (p. [679]- 680) and index.
Nota di contenuto	Cover; Local Networks and the Internet; Title Page; Copyright Page; Table of Contents; Chapter 1. Introduction; 1.1. Why a network?; 1.2. Network classification; 1.2.1. Function of distance; 1.2.2. Function of the topology; 1.3. Interconnection networks; 1.4. Examples of network utilization; 1.5. The Internet network; 1.5.1. History; 1.5.2. Functioning principle; 1.6. Structure of this book; Chapter 2. Standardization and Wiring; 2.1. The IEEE 802 committee; 2.1.1. Traffic types and constraints; 2.1.2. Constraints; 2.2. The standards; 2.3. IEEE 802.1 addressing; 2.3.1. MAC address 2.3.2. EUI-642.4. Cabling rules; 2.4.1. Twisted pair wiring; 2.4.2. Optical fibers; Chapter 3. Ethernet and IEEE 802.3 Protocols; 3.1. History; 3.2. Physical level; 3.2.1. The supports; 3.2.2. The interfaces and connectors; 3.3. The fundamentals of CSMA/CD; 3.3.1. Protocol parameters; 3.3.2. BEB algorithm; 3.3.3. Limits of the CSMA/CD algorithm; 3.3.4. The repeaters; 3.4. Frame format; 3.4.1. Physical level; 3.4.2. MAC level; 3.5. The 10BASE5 network; 3.5.1. The equipment; 3.5.2. Manchester coding; 3.6. Devices for the 10BASE2; 3.7. Twisted pair equipment; 3.7.1. The hubs; 3.7.2. The switches 3.7.3. The 100BASE-T3.7.4. 1000BASE-T; 3.7.5. Auto-negotiation; 3.8. Fiber optics; 3.8.1. 10BASE-F; 3.8.2. 100BASE-FX; 3.8.3. 1000BASE-X; 3.8.4. Encoding; 3.8.5. Auto-negotiation; 3.8.6. Half-duplex mode and burst transmission; 3.9. Examples of Ethernet frames; 3.9.1. Signalovera 10BASE2 segment; 3.9.2. Frames; 3.10 Evolution of the Ethernet; Chapter 4. The LLC and SNAP Sublayers; 4.1. Definition; 4.2. LLC frames; 4.2.1. Frame formats; 4.2.2. Examples of protocols; 4.2.3. Window widths; 4.3. Example; 4.3.1. Type 1 LLC; 4.3.2. Type 2 LLC; 4.4. The SNAP layer; 4.4.1. Frame formats 4.4.2. ExampleChapter 5. Interconnection by Bridges: The Spanning Tree Algorithm; 5.1. Introduction; 5.2. Transparent filtering bridges; 5.2.1. Simple case; 5.2.2. Complex case; 5.3. Spanning tree algorithm; 5.3.1. Example; 5.3.2. Information update; 5.3.3. State diagram; 5.3.4. Message format; 5.3.5. Example; Chapter 6. Internet; 6.1. The Internet players; 6.1.1. The Internet Society; 6.1.2. The IAB; 6.1.3. The IESG; 6.1.4. The IRSG; 6.1.5. Address and protocol parameter management; Chapter 7. IP Protocols; 7.1. Implementation of the TCP/IP protocols; 7.1.1. Terminal equipment 7.1.2. Routers7.1.3. IP layer architecture; 7.2. Internet addressing; 7.2.1. Notation; 7.2.2. Special IPv4 addresses; 7.2.3. IPv4 class addressing; 7.2.4. Hierarchical addressing; 7.2.5. Special IPv4 prefixes and addresses; 7.2.6. Special IPv6 addresses and prefixes; 7.3. The IPv4 protocol (RFC 791, RFC 1122); 7.3.1. Format of IPv4 datagrams; 7.4. The ICMP (Internet Control Message Protocol) (RFC 792); 7.4.1. The message cannot reach its destination; 7.4.2. Expired TTL and the traceroute program; 7.4.3. Quench source; 7.4.4. Redirection indication; 7.4.5. Echo/the ping command 7.4.6. Netmask request /reply to netmask (RFC 950)
Sommario/riassunto	"This title covers the most frequently used elements of the Internet and Intranet and their development. It details the latest developments in research and covers new themes such as IP6, MPLS, and IS-IS routing, as well as explaining the function of standardization committees such as IETF, IEEE, and UIT. The book is punctuated with numerous examples and applications which will help the reader to place protocols in their proper context"--