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| Nota di contenuto | Intelligent Internet Knowledge Networks: Processing of Concepts and Wisdom; Contents; Foreword; Preface; Introduction; PART I Network Environments; Chapter 1 Processing of Knowledge; 1.1 Introduction; 1.2 The Basis of New Machines; 1.3 Classical Computing Environments; 1.4 Newer Computing Environments; 1.4.1 Telecommunications Applications; 1.4.2 Medical Applications; 1.4.3 Other Computer-Intensive Systems; 1.5 Object-Oriented Systems; 1.6 Special Purpose Computer Systems; 1.7 Conclusions; References; Chapter 2 Network Perspective; 2.1 Evolving Network Architectures 2.2 Networks for Communication 2.2.1 Copper in Networks; 2.2.2 Microwaves in Networks; 2.2.3 Fiber Optics in Networks; 2.3 Transmission in Optical Network; 2.4 The SONET Standard; 2.5 SONET Architectures; 2.6 ATM Concepts; 2.7 Expectations from Modern Network; 2.7.1 Specific Applications; 2.7.2 Special-Purpose LANs and Generic Backbones; 2.8 Architectural Commonality; 2.8.1 The All-Internet Solution; 2.8.2 The All-Private Network; 2.8.3 Integrated Network Architectures and Internet; 2.9 Intelligent Networks; Control and Sequencing of Functions; Communication of Data and Control |

Signals

Computation, Address Lookup and Dynamic RoutingLogical Channel Switching; 2.9.1 Intelligent Networks Defined; 2.9.2 Specific Building Blocks of Intelligent Networks; 2.9.2.1 Service Switching Point (SSP); 2.9.2.2 Service Control Point (SCP); 2.9.2.3 Signal Transfer Point (STP); 2.9.2.4 Service Management System (SMS); 2.9.2.5 Intelligent Peripheral (IP); 2.9.2.6 CCIS Network.; 2.9.2.7 Functionality of IN Components; 2.9.3 Seamless Networks; 2.10 Database Management; 2.10.1 Data Management in Intelligent Networks; 2.10.2 Data Management for DSL Development; 2.10.2.1 Permanent Databases 2.10.2.2 Program Databases 2.10.2.3 Postprocessing Program Databases; 2.10.2.4 Pictorial Databases; 2.10.2.5 Intermediate Databases; 2.10.3 Data Management for Lightwave Systems; 2.10.3.1 Vendor Databases for Lightwave Systems; 2.10.3.2 Program Databases for Lightwave Systems; References; Chapter 3 Embedded Intelligence; 3.1 Search for Knowledge; 3.1.1 Intelligent Internet Defined; 3.1.2 Intelligent Internet from Intelligent Network Platform; 3.2 Peripherals and Interfaces; 3.3 Generic Medical Networks; 3.3.1 Hospital-based Medical Networks; 3.3.2 Architectural Considerations 3.3.3 Architectures for Telemedicine 3.3.4 MSP-Based Medical Network; 3.3.4.1 Integration of Medical Networks; 3.3.4.2 Status Quo of the Medical Network Environments; 3.3.4.3 Intelligent Medical Network or MSP-based Intelligent Internet; 3.3.4.4 Proposed MSP Network Configuration; 3.3.4.5 MSP-Based Network or the Internet; 3.3.4.6 Knowledge-Based Programmable MSP Architectures; 3.4 Generic Educational Network; 3.4.1 Network-Based Intelligent Educational Networks; 3.4.2 Network Architecture for Distance Learning; 3.4.3 Design Considerations of Network-based Educational Systems 3.4.4 Features Common to Educational Environments

Sommario/riassunto

Introducing the basic concepts in total program control of the intelligent agents and machines, Intelligent Internet Knowledge Networks explores the design and architecture of information systems that include and emphasize the interactive role of modern computer/communication systems and human beings. Here, you'll discover specific network configurations that sense environments, presented through case studies of IT platforms, electrical governments, medical networks, and educational networks.