Fundamentals Of Dsl Technology

As Internet traffic continues to grow exponentially, there is a great need to build Internet protocol (IP) routers with high-speed and high-capacity packet networking capabilities. The first book to explore this subject, Packet Forwarding Technologies explains in depth packet forwarding concepts and implementation technologies. It covers the Measurement is a multidisciplinary experimental science. Measurement systems synergistically blend science, engineering and statistical methods to provide fundamental data for research, design and development, control of processes and operations, and facilitate safe and economic performance of systems. In recent years, measuring techniques have expanded rapidly and gained maturity, through extensive research activities and hardware advancements. With individual chapters authored by eminent professionals in their respective topics, Advanced Topics in Measurements attempts to provide a comprehensive presentation and in-depth guidance on some of the key applied and advanced topics in measurements for scientists, engineers and educators.
Fundamentals of DSL TechnologyCRC Press
PART OF THE JONES & BARTLETT LEARNING INFORMATION SYSTEMS SECURITY & ASSURANCE SERIES Revised and updated with the latest information from this fast-paced field, Fundamentals of Information System Security, Second Edition provides a comprehensive overview of the essential concepts readers must know as they pursue careers in information systems security. The text opens with a discussion of the new risks, threats, and vulnerabilities associated with the transformation to a digital world, including a look at how business,

government, and individuals operate today. Part 2 is adapted from the Official (ISC)2 SSCP Certified Body of Knowledge and presents a high-level overview of each of the seven domains within the System Security Certified Practitioner certification. The book closes with a resource for readers who desire additional material on information security standards, education, professional certifications, and compliance laws. With its practical, conversational writing style and step-by-step examples, this text is a must-have resource for those entering the world of information systems security. New to the Second Edition: - New material on cloud computing, risk analysis, IP mobility, OMNIBus, and Agile Software Development. - Includes the most recent updates in Information Systems Security laws, certificates, standards, amendments, and the proposed Federal Information Security Amendments Act of 2013 and HITECH Act. - Provides new cases and examples pulled from real-world scenarios. - Updated data, tables, and sidebars provide the most current information in the field.

Management and IT professionals in the healthcare arena face the fear of the unknown: they fear that their massive efforts to comply with HIPAA requirements may not be enough, because they still do not know how compliance will be tested and measured. No one has been able to clearly explain to them the ramifications of HIPAA. Until now. The H

The DSL arena is expanding rapidly, making it highly unlikely that any single author can adequately address the breadth and depth of the subject. Responding to the demand of designers worldwide, Fundamentals of DSL Technology combines the strengths of the field's most renowned DSL experts, providing a foundation of all aspects of DSL system design.

With today's information explosion, many organizations are now able to access a wealth of valuable data. Unfortunately, most of these organizations find they are ill-equipped to organize

this information, let alone put it to work for them. Gain a Competitive Advantage Employ data mining in research and forecasting Build models with data management tools and methodology optimization Gain sophisticated breakdowns and complex analysis through multivariate, evolutionary, and neural net methods Learn how to classify data and maintain quality Transform Data into Business Acumen Data Mining Methods and Applications supplies organizations with the data management tools that will allow them to harness the critical facts and figures needed to improve their bottom line. Drawing from finance, marketing, economics, science, and healthcare, this forward thinking volume: Demonstrates how the transformation of data into business intelligence is an essential aspect of strategic decision-making Emphasizes the use of data mining concepts in real-world scenarios with large database components Focuses on data mining and forecasting methods in conducting market research Learn how to build efficient, simple, high performance indoor optical wireless communication systems based on visible and infrared light.

Within American service sector organizations there exists a gap between understanding customer service quality improvement (QI) theories and applying them. Improving Service Quality in the Global Economy: Achieving High Performance in Public and Private Sectors, Second Edition fills that gap by presenting theory, application models, and cases of successful customer service QI efforts in both the public and private sectors. The book emphasizes the selection and development of strategies for quality improvement in regulated

public non-market-driven services such as education, government, and healthcare. This revised edition promotes managerial thinking that integrates QI and Knowledge Management (KM) concepts with leadership principles that enable effective responses to the changing demands of the global economy. The text provides step-by-step guidelines, recommendations, and action plans for implementing quality improvements in service sector industries, which now generate two-thirds of America's GDP. Throughout this volume, cases of successful QI efforts in service industries complement major points in each chapter, offering profiles of global service quality leaders that serve as examples to organizations in the public sector. Current and future managers will gain insight into how the global service quality revolution effects their daily work environments, inspiring improvement in products, services, and support that American companies provide to markets worldwide.

"ADSL/VDSL Principles" discusses all aspects of Asymmetric Digital Subscriber Lines (ADSL) and Very high speed Digital Subscriber Lines (VDSL), two of the newest and hottest DSL technologies. The book discusses both theoretical background and practical implementation of ADSL and VDSL and explores all layers of DSL networks.

There are hundreds of technologies and protocols used in telecommunications.

They run the full gamut from application level to physical level. It is overwhelming to try to keep track of them. Network Design, Second Edition: Management and Technical Perspectives is a broad survey of the major technologies and networking protocols and how they interrelate, integrate, migrate, substitute, and segregate functionality. It presents fundamental issues that managers and engineers should be focused upon when designing a telecommunications strategy and selecting technologies, and bridges the communication gap that often exists between managers and technical staff involved in the design and implementation of networks. For managers, this book provides comprehensive technology overviews, case studies, and tools for decision making, requirements analysis, and technology evaluation. It provides guidelines, templates, checklists, and recommendations for technology selection and configuration, outsourcing, disaster recovery, business continuity, and security. The book cites free information so you can keep abreast of important developments. Engineers benefit from a review of the major technologies and protocols up and down the OSI protocol stack and how they relate to network design strategies. Topics include: Internet standards, protocols, and implementation; client server and distributed networking; value added networking services; disaster recovery and business continuity technologies; legacy IBM mainframe technologies and

migration to TCP/IP; and MANs, WANs, and LANs. For engineers wanting to peek under the technology covers, Network Design provides insights into the mathematical underpinnings and theoretical basis for routing, network design, reliability, and performance analysis. This discussion covers star, tree, backbone, mesh, and access networks. The volume also analyzes the commercial tools and approaches used in network design, planning, and management.

There are hundreds of technologies and protocols used in telecommunications. They run the full gamut from application level to physical level. It is overwhelming to try to keep track of them. Network Design, Second Edition: Management and Technical Perspectives is a broad survey of the major technologies and networking protocols and how they interr

Optical networks, undersea networks, GSM, UMTS...The recent explosion in broadband communications technologies has opened a new world of fast, flexible services and applications. To successfully implement these services, however, requires a solid understanding of the concepts and capabilities of broadband technologies and networks. Building Broadband Networks provides a comprehensive, non-theoretical introduction to broadband networking. It clearly and thoroughly conveys the principles and the technical fundamentals of the high-performance technologies that enable the reliable delivery of media-rich voice,

video, and data services. After a careful examination of ISDN and ATM technologies, it describes optical network solutions based on SONET/SDH, WDM, and DWDM technologies. It then explores Ethernet operations and services and introduces Frame Relay and Fibre Channel networks, DSL solutions, and wireline and wireless cable networks. The author reviews the capabilities of cellular technologies, describes the characteristics of wireless networking technologies, and examines broadband satellite networks. She also explores next-generation network configurations, such as Internet2 and GEANT, and concludes with a study of network security problems and solutions. The process of building and implementing broadband networks is technically complicated. Straightforward, highly readable, and logically presented, Building Broadband Networks provides the foundation for understanding the broadband communications infrastructure and the framework needed to effectively develop and deploy broadband network solutions.

The debut of small, inexpensive, yet powerful portable computers has coincided with the exponential growth of the Internet, making it possible to access computing resources and information at nearly any location at almost any time. This new trend, mobile computing, is poised to become the main technology driver for a decade to come. There are many

Effective communication on projects is a challenging, ongoing process for project managers and stakeholders at all levels within an organization. Project managers experience the greatest challenge due to the nature of their position. They set up and regulate communications that support a project overall. Effective Communications for Project Management examines elements of effective communications and describes the role that a Project Management Information System (PMIS) has in helping project managers become better communicators. Based on the author's practical experience and insight as a project and program manager, the book describes the role of personaltiy and its effect on the communications process. It also details the seven elements of effective communications: Applying active and effective listening Preparing the communications and establishing an issues management process Drafting and publishing documentation Conducting meetings Giving effective presentations Developing and deploying a project website Building a project war room Containing examples and checklists that are adaptable to almost any project environment, this book is an invaluable resource that not only demonstrates how to attain effective communications, but also how communications can effect a project's bottom line.

The Only Resource to Cover Wireless, Wireline, and OpticalNetworks in One

Volume Mobile and stationary next-generation networks that access thephotonic core are destined to become as ubiquitous as traditionaltelephone networks. These networks must efficiently provideadequate network quality to multimedia applications with highbandwidth and strict quality-of-service requirements, as well asseamlessly integrate mobile and fixed architectures. Today'sengineering students must be properly prepared to meet thechallenges of next-generation network development anddeployment. Featuring contributions from top industrial experts and academicprofessors, this authoritative work provides a comprehensiveintroduction to next-generation networks. It explains wirelessnetworks such as wireless local area networks (WLAN), wirelesspersonal area networks (WPAN), wireless access, 3G/4G cellular, andRF transmission, as well as optical networks like long-haul andmetropolitan networks, optical fiber, photonic devices, and VLSIchips. Rather than focusing on heavy math or physical details, thisresource explores how the technology is being used. It describesaccess and transport network layer technologies while alsodiscussing the network and services aspects. Chapter coverage includes: Fiber–wireless networks: technologies, architectures, andfuture challenges Packet backhaul network Point-to-point microwave backhaul Fourth-generation broadband: paving the road to Gbit/s withcopper Dynamic bandwidth allocation in EPON and GPON

Next-generation ethernet passive optical networks: 10G-EPON Power line communications and smart grids Signaling for multimedia conferencing in 4G: architecture,evaluation, and issues Self-coexistence and security in cognitive radio networks Mobile WiMAX UWB personal area networks—MIMO extensions Next-generation integrated metropolitan-access network:technology integration and wireless convergence Resilient burst ring: a novel technology for the next-generationmetropolitan area networks Filled with illustrations and practical examples from industry,this book will be invaluable to engineers and researchers inindustry and academia, as well as senior undergraduate and graduatestudents, marketing and management staff, photonics physicists, andchip designers.

Ad hoc mobile wireless networks have seen increased adaptation in a variety of disciplines because they can be deployed with simple infrastructures and virtually no central administration. In particular, the development of ad hoc wireless and sensor networks provides tremendous opportunities in areas including disaster recovery, defense, health car

Comprehensive coverage of physical-layer and upper-layer aspects are a unique feature of this book. It covers the latest in both U.S. and international standards. Experts who helped to write the DSL standards describe the many advances in DSL technology and applications since the writing of their bestselling "Understanding Digital

Subscriber Line Technology."

Communication Technology Update and Fundamentals has set the standard as the single best resource for students and professionals looking to brush up on how communication technologies have developed, grown, and converged, as well as what's in store for the future. The 15th edition is completely updated, reflecting the changes that have swept the communication industries. The first five chapters offer the communication technology fundamentals, including the ecosystem, the history, and structure—then delves into each of about two dozen technologies, including mass media, computers, consumer electronics, and networking technologies. Each chapter is written by experts who provide snapshots of the state of each individual field. Together, these updates provide a broad overview of these industries, as well as the role communication technologies play in our everyday lives. In addition to substantial updates to each chapter, the 15th edition includes: First-ever chapters on Big Data and the Internet of Things Updated user data in every chapter Projections of what each technology will become by 2031 Suggestions on how to get a job working with the technologies discussed The companion website, www.tfi.com/ctu, offers updated information on the technologies covered in this text, as well as links to other resources This volume brings about the contemporary results in the field of discrete-time systems. It covers papers written on the topics of robust control, nonlinear systems and recent applications. Although the technical views are different, they all geared towards

focusing on the up-to-date knowledge gain by the researchers and providing effective developments along the systems and control arena. Each topic has a detailed discussions and suggestions for future perusal by interested investigators.
The complete spectrum of computing fundamentals starting from abc of computer to internet usage has been well covered in simple and readers loving style, The language used in the book is lucid, is easy to understand, and facilities easy grasping of concepts, The chapter have been logically arranged in sequence, The book is written in a reader-friendly manner both the students and the teachers, Most of the contents presented in the book are in the form of bullets, organized sequentially. This form of presentation, rather than in a paragraph form, facilities the reader to view, understand and remember the points better, The explanation is supported by diagrams, pictures and images wherever required, Sufficient exercises have been included for practice in addition to the solved examples in every chapter related to C programming, Concepts of pointers, structures, Union and file management have been extensively detailed to help advance learners, Adequate exercises have been given at the end of the every chapter, Pedagogy followed for sequencing the contents on C programming supported by adequate programming examples is likely to help the reader to become proficient very soon, 200 problems on C programming & their solutions, 250 Additional descriptive questions on C programming.
Implement DSL end-to-end solutions for all six current DSL architectures Coverage

includes: All DSL varieties: U.S. and international varieties include ANSI and ITU standards as well as legacy and proprietary xDSL varieties, such as CAP Cisco DSL-related equipment that supports all the xDSL varieties and configurations in both Cisco IOS(r) Software and the graphical user interface Cisco DSL Manager (CDM) software All six architectures that implement DSL using TCP/IP, with in-depth discussion of the four most commonly-used architectures New standards and deregulation issues, including the ITU SHDSL standard and the evolving VDSL technology International regulatory and infrastructure issues, with measurements expressed for both U.S. and international audiences Common challenges and their solutions when deploying or migrating using xDSL, including voice-over-IP (VoIP) and multimedia traffic Using MPLS to move DSL-generated traffic through networks Bonus appendixes provide an overview of ATM as well as a tour of Cisco Long-Reach Ethernet (LRE) Virtual private networks, firewall security, e-commerce applications, multiple voice lines, and e-learning programs: Digital Subscriber Line (DSL) can bring all of these services to even the smallest network at an affordable price. End-to-End DSL Architectures shows how DSL can save you time and money and, most importantly, give you a competitive edge. Your primer and guide to all things DSL, this book is written for both U.S. and international audiences and builds on your basic knowledge of internetworking and TCP/IP to evaluate and compare all six TCP/IP architectures for DSL. In addition to addressing the fundamentals of DSL technology and offering guidance for planning

future network evolution for a new or legacy DSL network, this book tells you what you really need to know, posing real-life challenges and explaining how to overcome common obstacles to implementation. To help you remember key concepts, each chapter of End-to-End DSL Architectures contains challenging, chapter-ending review questions that test your knowledge of the subject matter. A uniquely thorough glossary provides a concise yet full reference that is critical for sorting through the abbreviations and variations of DSL technology. Whether you are searching for a comprehensive reference to DSL standards and equipment or require an end-to-end solutions guide for xDSL architecture, End-to-End DSL Architectures is your complete solution for implementing DSL technology anywhere in the world, in absolutely any network-but especially in your own.

bull; Prepare for the CCNP 642-821 BCRAN exam and gain a better, practical understanding of exam concepts bull; Experience how remote access concepts work in a real network with practice labs that walk you through their implementation bull; Review set-up guides that show you how to prepare a lab for study bull; Ready yourself for the new simulation-based questions on the CCNP exams

Grid Database Design investigates the origin, background, and components of this new computing model. This book presents new concepts and analyzes pre-existing ideas in the context of Grid, educating organizations as to how Grid can increase their computing power and strengthen their operations. Divided into three sections, the

volume begins by laying the groundwork in the field, defining the concepts that led to the model's emergence. The second section explains what is entailed in building a Grid, focusing on security, hardware, and the forces driving growth. The final section explores details of databases in a Grid environment, illustrating how the Grid environment will shape database evolution. Grid Database Design reveals what will be coming in the near future, allowing database and systems administrators, programmers, and executives to get beyond the rumblings about this up-and-coming model and learn what Grid can offer to benefit their organizations.
Updated new edition covering all aspects of network planning and optimization This welcome new edition provides comprehensive coverage of all aspects of network planning in all the technologies, from 2G to 5G, in radio, transmission and core aspects. Written by leading experts in the field, it serves as a handbook for anyone engaged in the study, design, deployment and business of cellular networks. It increases basic understanding of the currently deployed, and emerging, technologies, and helps to make evolution plans for future networks. The book also provides an overview of the forthcoming technologies that are expected to make an impact in the future, such as 5G. Fundamentals of Cellular Network Planning and Optimization, Second Edition encompasses all the technologies as well as the planning and implementation details that go with

them. It covers 2G (GSM, EGPRS), 3G (WCDMA) and 4G (LTE) networks and introduces 5G. The book also looks at all the sub-systems of the network, focusing on both the practical and theoretical issues. Provides comprehensive coverage of the planning aspects of the full range of today's mobile network systems, covering radio access network, circuit and packet switching, signaling, control, and backhaul/Core transmission networks New elements in book include HSPA, Ethernet, 4G/LTE and 5G Covers areas such as Virtualization, IoT, Artificial Intelligence, Spectrum Management and Cloud By bringing all these concepts under one cover, Fundamentals of Cellular Network Planning and Optimization becomes essential reading for network design engineers working with cellular service vendors or operators, experts/scientists working on end-to-end issues, and undergraduate/post-graduate students.

Offers concise, practical knowledge on modern communication systems to help students transition smoothly into the workplace and beyond This book presents the most relevant concepts and technologies of today's communication systems and presents them in a concise and intuitive manner. It covers advanced topics such as Orthogonal Frequency-Division Multiplexing (OFDM) and Multiple-Input Multiple-Output (MIMO) Technology, which are enabling technologies for modern communication systems such as WiFi (including the latest enhancements) and

LTE-Advanced. Following a brief introduction to the field, Digital Communication for Practicing Engineers immerses readers in the theories and technologies that engineers deal with. It starts off with Shannon Theorem and Information Theory, before moving on to basic modules of a communication system, including modulation, statistical detection, channel coding, synchronization, and equalization. The next part of the book discusses advanced topics such as OFDM and MIMO, and introduces several emerging technologies in the context of 5G cellular system radio interface. The book closes by outlining several current research areas in digital communications. In addition, this text: Breaks down the subject into self-contained lectures, which can be read individually or as a whole Focuses on the pros and cons of widely used techniques, while providing references for detailed mathematical analysis Follows the current technology trends, including advanced topics such as OFDM and MIMO Touches on content this is not usually contained in textbooks such as cyclo-stationary symbol timing recovery, adaptive self-interference canceler, and Tomlinson-Harashima precoder Includes many illustrations, homework problems, and examples Digital Communication for Practicing Engineers is an ideal guide for graduate students and professionals in digital communication looking to understand, work with, and adapt to the current and future technology.

While organizations differ from each other, they are also alike in many ways. Regardless of whether they are large or small, not-for-profit or profit driven, these organizations usually face similar challenges, problems, and opportunities pertaining to performance. Based on the experiences of over 300 organizations, Performance Improvement: Making it Happen, Second Edition details an effective step-by-step approach toward improving organizational performance. It combines state-of-the-art knowledge and techniques in organizational development with many actual cases and experiences. The book is organized into three parts that are targeted at gaining the most from organizational performance: Getting It Started, Taking Action, and Making It Permanent. This second edition features real-world examples dealing with issues representative of those found in a variety of industries and the concepts and methods of improvement used. The final part provides readers with a plan for integrating many of the performance improvement interventions and programs previously discussed into an overall approach for making improvements successful and continuous. This final section also features three very different organizations that have used many of the performance improvement programs discussed in the book. Their measured progress in performance is highlighted.
With a focus on strategy and implementation, James Chang discusses business

management practices and the technology that enables them. He analyzes the history of process management practices and demonstrates that BPM practices are a synthesis of radical change and continuous change practices. The book is relevant to both business and IT professionals who are presented with an integrated view on how various management practices merge into BPM. This volume describes the many technologies that converge to form a Business Process Management System (BPMS), illustrating its standards and service-oriented architecture. About the Author James Chang is the founder and president of Ivy Consultants, Inc. He has extensive experience implementing Enterprise Resource Planning (ERP)–enabled business solutions and process-centric integration solutions for Fortune 500 companies. Mr. Chang has written several articles on BPM and EAI. He graduated cum laude with a Bachelor of Science degree in operations research and industrial engineering from Cornell University.

The digital subscriber line (DSL) industry is expanding rapidly and a technology once thought to be only transitional will soon clear $100 billion in total annual service revenue. From the world's leading DSL experts, Implementation and Application of DSL Technologies builds upon the theory presented in Fundamentals of DSL Technologies to address issues fundamental to the

success of DSL technology, including those that sustain DSL development, constraints, and challenges. This highly practical text peers into the blossoming sub-industries, all born of the DSL. The editors lead with a discussion on splitter circuits and micro-filters and continue by addressing digital chipsets and the capabilities required to mix and match them with various other components. Since testing has become an industry in its own, several chapters describe the various types of testing necessary for service qualification, the evolution of testing and provisioning of services from plain old telephone service, loop qualification, and regulator's decree of spectrum management. The book gives adequate coverage of DSM technology and describes networks for multiple applications in video, telephony, and Internet data areas and the associated network architectures. In addition, a section on security discusses packet transfer mechanism and voice-over DSL. Offering a vast array of information not currently in the public domain, Implementation and Application of DSL Technologies provides a rigorous survey of DSL applications that illustrates the profound effect this technology is having on the communications industry. When combined with Fundamentals of DSL Technology, this is the most comprehensive and authoritative source of information on DSL.
Aggressively being adopted by organizations in all markets, service-oriented

architecture (SOA) is a framework enabling business process improvement for gaining competitive advantage. Service-Oriented Architecture: SOA Strategy, Methodology, and Technology guides you through the challenges of deploying SOA. It demonstrates conclusively that strategy and methodology are the keys to implementing SOA and provides the methodology needed for SOA success. The book examines the role of both non-agile and agile project management techniques for deploying SOA. Its methodology applies frameworks of governance, communications, product realization, project management, architecture, data management, service management, human resource management and post implementation processes. Filled with case studies, the book shows the methodology in action. This reference benefits business managers, business analysts, and technology project managers who are serious about adopting SOA as a long-term strategy. It is also benefits those new to business process management, enterprise architecture, and information systems and need to understand SOA, its business drivers, and its methodology. Here's easy-to-understand book that introduces you to fundamental network security concepts, principles, and terms, while providing you with practical techniques that you can apply on the job. It helps you identify the best type of intrusion detection system for your environment, develop organizational

guidelines for passwords, set general computer security policies, and perform a security review and risk assessment .

Your comprehensive guide to Fiber Optics Fundamentals and advancements taking place in this field… Synopsis This book provides solid base in fiber optics communications for B Tech and M Tech students and also for practicing engineers and research scholars in this field. The book contains more than 650 illustrations which give a comprehensive coverage of the technology involved in the fiber optics communications. This book gives an in-depth coverage of: ? Telecommunications fundamentals ? optical fiber transmission characteristics ? optical fiber manufacturing and cables ? Signal degradation (distortion) in optical fibers ? optical fiber nonlinearities and their management ? optical sources and receivers ? optical amplifiers ? SONET/SDH, OTN, DWDM, OFDM and Super Channels ? connectors and couplers ? fiber optic link design ? optical networks and cloud computing ? review of fiber optic sensors and their applications (Fiber optics sensors are altogether a different field in latest sensor technology) ? Advance technologies in fiber optics communications covering FTTH technologies, OTDR, Nanophotonics, Low signal latency in optical fibers and fabrication and simulation of optical fibers and their optical parameters by Opti-Wave software.

Guide to Optimal Operational Risk and Basel II presents the key aspects of operational risk management that are also aligned with the Basel II requirements. This volume provides detailed guidance for the design and implementation of an efficient operational risk management system. It contains all elements of assessment, including operational risk i

A complete guide of all DSL varieties, this volume also acts as a working handbook of configurations for all Cisco Systems devices. This book covers new standards and deregulation issues, including the recommended G.shdsl standard International regulatory and infrastructure detail for a more global approach.

Telecommunications service providers face increasing information assistance requests to help law enforcement while they simultaneously struggle with CapEx and OpEx reductions. On the other hand, law enforcement agencies face expensive telecommunication interface options for data collection as they battle with a growing backlog of subpoena requests.

Extending beyond the technical architecture to the very philosophy of how a business should operate, the Service Orientation approach establishes fluidity across boundaries to provide agility, transparency, and fundamental competitive advantage. Service Oriented Enterprises brings the concept of service orientation from the IT department to the boardroom, applying the precepts of service

oriented technology to the underlying dynamics of how a business operates. Implementing a technological concept as a cultural paradigm, the SOE succeeds by combining the best features from virtual, extended, real-time, and resilient enterprises to serve not just its customers, but also its trading partners, shareholders and employees. Building primarily on the success of the Internet and the automation of business policies and processes, the Service Oriented Enterprise (SOE) is defined by three essential layers: the enterprise performance layer, the business process management layer, and the underlying service oriented architecture. This book focuses primarily on layers two and three and how the fundamental dynamics of a business can be altered when these concepts are applied to both architecture and culture. Beginning with an overview of the emerging SOE culture, the text contrasts the new service-oriented methodologies with traditional waterfall and iterative methodologies. Emphasizing Web Service strategies for description, discovery, and deployment techniques, the author goes deeper into service-oriented concepts describing the business process management suite as the central core of the SOE, and introducing the Enterprise Service Bus as the backbone for integration. The text describe how modeling, executing, and continuously improving the business process and business policies lends to the development of a common language between

business and IT. The book concludes by expanding on these concepts and delving into the societal and behavioral aspects of the Service Oriented Enterprise. The reality of business is no longer one where change is an unusual phenomenon; today change is the norm and the capacity for consumer-sensitive, fluid transition is vital to business survival. Service Oriented Enterprises provides the key concepts to facilitate that change.

Wireless mesh networking is a new technology that has the potential to revolutionize how we access the Internet and communicate with co-workers and friends. Wireless Mesh Networks examines the concept and explores its advantages over existing technologies. This book explores existing and future applications, and examines how some of the networking

Implement DSL end-to-end solutions for all six current DSL architectures Coverage includes: All DSL varieties: U.S. and international varieties include ANSI and ITU standards as well as legacy and proprietary xDSL varieties, such as CAP Cisco DSL-related equipment that supports all the xDSL varieties and configurations in both Cisco IOS(r) Software and the graphical user interface Cisco DSL Manager (CDM) software All six architectures that implement DSL using TCP/IP, with in-depth discussion of the four most commonly-used architectures New standards and deregulation issues, including the ITU SHDSL

standard and the evolving VDSL technology International regulatory and infrastructure issues, with measurements expressed for both U.S. and international audiences Common challenges and their solutions when deploying or migrating using xDSL, including voice-over-IP (VoIP) and multimedia traffic Using MPLS to move DSL-generated traffic through networks Bonus appendixes provide an overview of ATM as well as a tour of Cisco Long-Reach Ethernet (LRE) Virtual private networks, firewall security, e-commerce applications, multiple voice lines, and e-learning programs: Digital Subscriber Line (DSL) can bring all of these services to even the smallest network at an affordable price. End-to-End DSL Architectures shows how DSL can save you time and money and, most importantly, give you a competitive edge. Your primer and guide to all things DSL, this book is written for both U.S. and international audiences and builds on your basic knowledge of internetworking and TCP/IP to evaluate and compare all six TCP/IP architectures for DSL. In addition to addressing the fundamentals of DSL technology and offering guidance for planning future network evolution for a new or legacy DSL network, this book tells you what you really need to know, posing real-life challenges and explaining how to overcome common obstacles to implementation. To help you remember key concepts, each chapter of End-to-End DSL Architectures contains challenging, chapter-ending

review questions that test your knowledge of the subject matter. A uniquely thorough glossary provides a concise yet full reference that is critical for sorting through the abbreviations and variations of DSL technology. Whether you are searching for a comprehensive reference to DSL standards and equipment or require an end-to-end solutions guide for xDSL architecture, End-to-End DSL Architectures is your complete solution fo ...

Knowledge management (KM) is the identification and analysis of available and required knowledge, and the subsequent planning and control of actions, to develop "knowledge assets" that enable businesses to generate profits and improve their competitive positions. This volume provides the framework for the strategic use of the information intelligence processes - business intelligence, content management, and knowledge management. In nine detailed chapters, the author explains every facet of these three subjects, enabling you to understand these sophisticated business concepts within the framework of information technology. Knowledge Management, Business Intelligence, and Content Management: The IT Practitioner's Guide discusses creation, protection, development, sharing, and management of information and intellectual assets through the use of business intelligence and other knowledge sharing and analytical techniques. About the Author Jessica Keyes is president of New Art

Technologies, Inc., a high-technology and management consultancy, and is also founding partner of Manhattan Technology Group. Often a keynote speaker on the topics of competitive strategy, productivity, and quality, she is a founding board of directors member of the New York Software Industry Association, and has recently completed a 2-year term on the Mayor of New York City's Small Business Advisory Council. A noted columnist and correspondent, Keyes is the author of 19 books, including Auerbach Publications' Software Engineering Handbook, Software Configuration Management, and Implementing the IT Balanced Scorecard.

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