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moderne telekommunikationsnetze next generation networks basieren ausschließlich auf datennetztechnologien in dem buch werden die grundlagen die entwicklung und der heutige stand der zur zeit wichtigsten datennetztechnologien ethernet ip und mpls allgemeinverständlich und in deutscher sprache beschrieben dabei wird besonderen wert auf die praktische

anwendungen dieser technologien gelegt auf der verlagshomepage viewegteubner de kann das erworbene wissen anhand von verständnisfragen und Übungsaufgaben vertieft werden

the definitive guide to enterprise and carrier metro ethernet applications discover the latest developments in metro networking ethernet and mpls services and what they can do for your organization learn from the easy to read format that enables networking professionals of all levels to understand the concepts gain from the experience of industry innovator and best selling cisco press author sam halabi author of internet routing architectures metro networks will emerge as the next area of growth for the networking industry and will represent a major shift in how data services are offered to businesses and residential customers the metro has always been a challenging environment for delivering data services because it has been built to handle the stringent reliability and availability needs for voice carriers will have to go through fundamental shifts to equip the metro for next generation data services demanded by enterprise customers and consumers this is not only a technology shift but also a shift in the operational and business model that will allow the incumbent carriers to transform the metro to offer enhanced data services metro ethernet from cisco press looks at the deployment of metro data services from a holistic view it describes the current metro which is based on tdm technology and discusses the drivers and challenges carriers will face in transforming the metro to address data services metro ethernet discusses the adoption of metro ethernet services and how that has led carriers to the delivery of metro data services with a changing mix of transport technologies the book then examines current and emerging trends and delves into the role of virtual private networks vpn virtual private local area networks vlan virtual private lan services vpls traffic engineering and mpls and generalized mpls gmpls

covers the realities of implementation in an incredible technology

this title provides the essential underpinnings for understanding cisco products services and technologies it is a gateway to all the cisco basics as well as an introduction to new trends in the world of internetworking

plan design and configure high speed fiber optic networks coverage includes configuring ons 15454 and ons 15327 platforms architecture for building metropolitan ethernet transparent lan services tpls packet over sonet pos network design configuration and verification inner workings of dense wavelength division multiplexing dwdm including operability with the ons 15216 product family principles of dynamic packet transport dpt sonet background including structures components and network design bonus case studies which challenge you to select equipment and design a metro optical network fiber optic networking has several significant advantages over traditional wired and wireless networks optical signals can travel much farther than electrical signals are more secure are resistant to electromagnetic interference and have the potential to provide bandwidth in the terabits per second range 1000 gbps service providers must satisfy the always increasing networking demands of customers while keeping costs to a minimum optical networks must meet the challenge of supporting multiple types of transmissions including voice video and data traffic although time division multiplexing tdm has provided a growth path for services it is more constrained than ip optical strategies like the cisco dynamic packet transport resilient packet ring the cisco systems end to end ip optical networking strategy provides an intelligent converged network in which optical infrastructures can be used to their fullest potential while most reference books focus on the theory involved in sonet and optical infrastructures cisco self study building cisco metro optical networks metro focuses on the practical application of planning and configuring optical networks that involve sonet dwdm metropolitan ethernet packet over sonet and dynamic packet transport resilient packet ring cisco self study building cisco metro optical networks metro is part of a recommended learning path from cisco systems that can include simulation and hands on training from authorized cisco learning partners and self study products from cisco press to find out more about instructor led training e learning and hands on instruction offered by authorized cisco learning partners worldwide please visit cisco com go authorizedtraining this volume is in the certification self study series offered by cisco press books in this series provide officially deve

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the hottest issue in telecom today is how to solve the metro area bandwidth bottleneck with sonet being the solution tha appeals to most telecom companies but to compete against ethernet sonet will need plenty of fine tuning this book will help service providers compare their options and fully understand what is really necessary to give current sonet installations next generation capabilities shows how to achieve new generation features with enhanced sonet and other optical architectures compares sonet s features and services with rival ethernet based offerings offers design approaches and business models for real world deployments covers gmpls generalized mpls a red hot switching technology for wavelength services in 2001 the telecom industry spent money on solving the metro area bandwidth bottleneck sonet appeals to the telcos because it is widely deployed reliable robust and scalable but it will need multiple changes and enhancements to compete against the emerging rival ethernet

broadband in the metro area has proven to be telecom s one bright spot in 2001 all the long haul backbone capacity in the world does you no good if you can t move your data through the metro bottleneck but service providers are wrestling with all manner of technology choices sonet dwdm ethernet the coming 10gig ethernet and also face the challenge of easily and effectively accessing sans and vpns quality of service issues are crucial in recruiting and maintaining customers steven shepard lays bare the tricks and traps awaiting service providers in the metro area space detailing the technological challenges and opportunities in his trademark lucid humorous prose

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