DESCRIPTION

This book provides a comprehensive understanding of current and debated future networking technologies. It gives insight into building end-to-end networks and services with Carrier Ethernet, PBT, MPLS-TP, and VPLS while also shedding light on the pros and cons of these technologies for service providers and enterprise network owners.

Focusing on layer-2 networking and services, *Networks and Services* covers:

- The basics of Ethernet such as protocol stack, bridges, switches, and hubs
- Key techniques that are being used in building carrier-class Carrier Ethernet networks and services like synchronization, pseudowires, and protection
- Carrier Ethernet network architectures and services that are currently deployed in the industry
- Traffic management and OAM capabilities of Carrier Ethernet
- Circuit Emulation Services
- PBB and PBT to resolve possible scalability issues of Carrier Ethernet
- Technologies that are competing or working with Carrier Ethernet in forming data networks and services, Transport MPLS, MPLS Transport Profile, and VPLS
Networks and Services: Carrier Ethernet, PBT, MPLS-TP, and VPLS is ideal for network architects, engineers, and planning professionals in telecommunications, as well as students and researchers in related disciplines.

ABOUT THE AUTHOR

MEHMET TOY, PhD, is a Distinguished Engineer at Comcast and represents the company in the Metro Ethernet Forum (MEF) and IEEE standards. Previously, he held management and technical positions at ADVA Optical Networking, Intel Corporation, Verizon Wireless, Axiwave Networks, Fujitsu Network Communications, AT&T Bell Labs, and Lucent Technologies. Dr. Toy contributed to the research, development and standardization of various telecommunication technologies including IP Multimedia System (IMS), Asynchronous Transfer Mode (ATM), optical, IP/MPLS, and wireless. He has authored multiple books in these areas and various articles in data networking and signal processing, and has taught at universities as a tenure-track and adjunct faculty member.

RELATED RESOURCES

Instructor

View Instructor Companion Site

SERIES

Information and Communication Technology Series

To purchase this product, please visit https://www.wiley.com/en-us/9780470391198