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Autore	Helvoort Huub van
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Layer -- 4.8 The Layers Below the SDH OSn and ES1 Layer -- 4.9 The Optical Transport Network OTN -- 4.10 The OTN Optical Channel Data Unit Layer (ODUk) -- 4.11 The OTN Optical Channel Transport Unit Layer (OTUk) -- 4.12 The OTN Optical Channel Layer (OCh) -- 4.13 The OTN Optical Multiplex Section Layer (OMSn) -- 4.14 The OTN Optical Transmission Section Layer (OTSn) -- 4.15 The OTN Optical Physical Section Layer (OPS) -- 5. PACKET TRANSPORT NETWORK MODELING: EXTENDING THE MODEL TO NGN -- 5.1 The Generic PTN Layer -- 5.2 The PTN-Specific OAM Traffic Units -- 6. FREQUENCY JUSTIFICATION: POINTERS AND STUFFING -- 6.1 Pointer Processing -- 6.2 Bit Stuffing -- 6.3 Positive and Negative Justification -- 7. PROTECTION MECHANISMS: IMPROVE AVAILABILITY -- 7.1 Availability -- 7.2 Protection Architectures -- 7.3 Protection Classes -- 8. MAPPING METHODOLOGIES: FITTING THE PAYLOAD IN THE CONTAINER -- 8.1 SDH/SONET--Container C-n Mapping -- 8.2 OTN--Container OPUk Mapping -- 8.3 GFP Mapping -- 9. CONCATENATION: TO GROW AND PROVIDE FLEXIBILITY. -- 9.1 Contiguous Concatenation (CCAT) -- 9.2 Virtual Concatenation (VCAT) -- 9.3 Link Capacity Adjustment Scheme (LCAS) -- 10. SDH VS. SONET OVERHEAD PROCESSING: COMMONALITIES AND DIFFERENCES. ABBREVIATIONS -- REFERENCES -- BIBLIOGRAPHY -- INDEX.

Sommario/riassunto

A comprehensive guide to SDH, SONET, and OTN The ComSoc Guide to Next Generation Optical Transport provides a unique overview of SDH and OTN for engineers who are new to the field, as well as manufacturers, network operators, and graduate students who need a basic understanding of the topics. Fully up-to-date with the latest research and written by one of the foremost experts in the field, it covers: Network architectures Frames and structures Network modeling Packet transport network modeling Frequency justification Protection mechanisms
