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Note generali :

2. Record Nr.	UNINA9911019687603321
Autore	Iniewski Krzysztof
Titolo	Network infrastructure and architecture : designing high-availability networks // Krzysztof Iniewski, Carl McCrosky, Daniel Minoli
Pubbl/distr/stampa	Hoboken, N.J., : Wiley-Interscience, c2008
ISBN	9786611284695 9781281284693 1281284696 9780470253526 0470253525 9780470253519 0470253517
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Descrizione fisica	1 online resource (563 p.)
Altri autori (Persone)	McCroskyCarl <1948-> MinoliDaniel <1952->
Disciplina	621.382/7
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Lingua di pubblicazione	Inglese
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface. -- Part I: Optical Transmission. -- 1. Introduction to Networking. -- 2. Fiber-Optic Transmission. -- 3. Wavelength-Division Multiplexing. -- Part II: Networking Protocols. -- 4. Sonet. -- 5. TCP/IP Protocol Suite. -- 6. Protocol Stacks. -- Part III: VLSI Chips. -- 7. VLSI Integrated Circuits. -- 8. Circuits for Optical-to-Electrical Conversion. -- Part IV: Data Switching. -- 9. Physical Circuits Switching. -- 10. Time-Division-Multiplexed Switching. -- 11. Packet and Cell Switching and Queuing. -- Part V: Networking. -- 12. Network Elements. -- 13. Network Design: Efficient, Survivable Networks. -- Index.
Sommario/riassunto	A Comprehensive, Thorough Introduction to High-Speed Networking Technologies and Protocols Network Infrastructure and Architecture: Designing High-Availability Networks takes a unique approach to the subject by covering the ideas underlying networks, the architecture of

the network elements, and the implementation of these elements in optical and VLSI technologies. Additionally, it focuses on areas not widely covered in existing books: physical transport and switching, the process and technique of building networking hardware, and new technologies being deployed in the marketplace, such as Metro Wave Division Multiplexing (MWDM), Resilient Packet Rings (RPR), Optical Ethernet, and more. Divided into five succinct parts, the book covers: . Optical transmission . Networking protocols . VLSI chips . Data switching . Networking elements and design Complete with case studies, examples, and exercises throughout, the book is complemented with chapter goals, summaries, and lists of key points to aid readers in grasping the material presented. Network Infrastructure and Architecture offers professionals, advanced undergraduates, and graduate students a fresh view on high-speed networking from the physical layer perspective.

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