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| Nota di contenuto | Overview of Broadband Access Technologies -- PON Architectures -- Media Access Control and Resource Allocation in GPON -- Media Access Control and Resource Allocation in EPON and 10G-EPON -- Media Access Control and Resource Allocation in WDM PON -- OFDM PON -- Hybrid Optical and Wireless Access -- Green Passive Optical Networks -- Looking Forward. |
| Sommario/riassunto | This book focuses on various Passive optical networks (PONs) types, including currently deployed Ethernet PON (EPON) and Gigabit PON (GPON) as well as next generation WDM PON and OFDM PON. Also this book examines the integrated optical and wireless access networks. Concentrating on two issues in these networks: media access control (MAC) and resource allocation. These two problems can greatly affect performances of PONs such as network resource utilization and QoS of end users. Finally this book will discuss various solutions to address the MAC and resource allocation issues in various PON networks. |