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| 1. Record Nr.           | UNINA990010027530403321                                                                                                                          |
| Autore                  | Ravazzani, Silvia                                                                                                                                |
| Titolo                  | Valorizzare la diversità nella formazione e nell'apprendimento : teorie ed esperienze / a cura dsi Silvia Ravazzani, Sara Mormino, Chiara Moroni |
| Pubbl/distr/stampa      | Milano : FrancoAngeli, 2015                                                                                                                      |
| Descrizione fisica      | 150 p. : tab. ; 20 cm                                                                                                                            |
| Collana                 | Lavoro per la persona ; 6                                                                                                                        |
| Altri autori (Persone)  | Mormino, Sara                                                                                                                                    |
| Disciplina              | 374                                                                                                                                              |
| Locazione               | BFS                                                                                                                                              |
| Collocazione            | 374 RAV 1                                                                                                                                        |
| Lingua di pubblicazione | Italiano                                                                                                                                         |
| Formato                 | Materiale a stampa                                                                                                                               |
| Livello bibliografico   | Monografia                                                                                                                                       |

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| 2. Record Nr.           | UNINA9910815442503321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Autore                  | Warier Sudhir                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Titolo                  | The ABCs of fiber optic communication / / Sudhir Warier                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Pubbl/distr/stampa      | Boston : , : Artech House, , [2017]<br>[Piscataway, New Jersey] : , : IEEE Xplore, , [2017]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| ISBN                    | 1-63081-416-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Descrizione fisica      | 1 online resource (xxi, 291 pages) : illustrations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Collana                 | Artech House applied photonics series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Disciplina              | 621.38275                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Soggetti                | Optical fiber communication<br>Fiber optics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Lingua di pubblicazione | Inglese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Formato                 | Materiale a stampa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Livello bibliografico   | Monografia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Nota di bibliografia    | Includes bibliographical references and index.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Nota di contenuto       | Preface -- Acknowledgments -- Part 1. The Conceptual Framework --<br>1. Fundamentals of Optical Communication -- 1.1. Chapter Objectives<br>-- 1.2. Electromagnetic Spectrum -- 1.3. Light-Key Concepts -- 1.4.<br>Fundamentals of Light Transmission -- 1.5. Estimating Channel<br>Capacity of a Communication Link -- 1.6. Scales -- 1.7. Optical Power<br>Measurements -- 1.8. Modes of Light Propagation in Optical Fiber --<br>1.9. Dispersion -- 1.10. Effects of Fiber Nonlinearities -- 1.11.<br>Summary -- 1.12. Referred Standards -- 1.13. Review -- 1.14.<br>Selected Bibliography -- 2. Essentials of Fiber Optic Communication --<br>2.1. Chapter Objectives -- 2.2. Introduction -- 2.3. Optical Fiber<br>Design Specifications -- 2.4. Optical Fiber Classification -- 2.5.<br>Standard Optical Fiber Designs -- 2.6. Safety Standards -- 2.7. Optical<br>Fiber Composition -- 2.8. Fiber Geometry -- 2.9. Fiber Selection<br>Criteria -- 2.10. Common Fiber Plant Deployment -- 2.11. Summary --<br>2.12. Review -- 2.13. Referred Standards -- 2.14. Selected<br>Bibliography -- 3. Optical Fiber Splicing and Interfaces -- 3.1. Chapter<br>Objectives -- 3.2. Introduction -- 3.3. Splices and Connectors -- 3.4.<br>Optical Transmitters -- 3.5. Optical Receivers -- 3.6. Optical<br>Modulation Techniques -- 3.7. Link Loss Budgeting -- 3.8. Summary<br>-- 3.9. Review -- 3.10. Referred Standards -- 3.11. Selected<br>Bibliography -- 4. Fiber Plant Manufacturing, Installation, Maintenance,<br>and Diagnostic Techniques -- 4.1. Chapter Objectives -- 4.2. |

Introduction -- 4.3. Manufacturing of Optical Fibers -- 4.4. Fiber Laying Techniques -- 4.5. Cable Preparation, Splicing, and Termination -- 4.6. Safety Guidelines -- 4.7. Network Diagnostic Techniques -- 4.8. Summary -- 4.9. Review -- 4.10. Referred Standards -- 4.11. Recommended Reading -- Part 2. Optical Network Architectures -- 5. Photonic Transport Networks -- 5.1. Chapter Objectives -- 5.2. Introduction -- 5.3. Transport Network-An Overview -- 5.4. Transport Network-Needs, Benefits, and Function -- 5.5. Synchronous Optical Networks-Evolution -- 5.6. Transport Network-Architecture -- 5.7. Transport Network-Components -- 5.8. Summary -- 5.9. Review -- 5.10. Referred Standards -- 5.11. Recommended Reading -- 6. Dense Wavelength Division Multiplexing -- 6.1. Chapter Objectives -- 6.2. Introduction -- 6.3. What Is Wavelength Division Multiplexing? -- 6.4. Standardization -- 6.5. WDM Fundamentals -- 6.6. Bandwidth Explosion -- 6.7. Optical Transmission Challenges -- 6.8. WDM Network Components -- 6.9. DWDM Links -- 6.10. Summary -- 6.11. Review -- 6.12. Referred Standards -- 6.13. Recommended Reading -- 7 Next Generation Optical Networks -- 7.1. Chapter Objectives -- 7.2. Introduction -- 7.3. Optical Transport Networks -- 7.4. IP over DWDM Architecture -- 7.5. IP/MPLS Optical Core Networks -- 7.6. Next-Generation Packet Optical Transport Network -- 7.7. Summary -- 7.8. Review -- 7.9. Referred Standards -- 7.10. Recommended Reading -- 8. Optical Access Networks -- 8.1. Chapter Objectives -- 8.2. Introduction -- 8.3. Broadband Access Networks (Cable) -- 8.4. Converged Cable Access Platform -- 8.5. Optical Fiber Access Networks -- 8.6. Summary -- 8.7. Review -- 8.8. Referred Standards -- 8.9. Selected Bibliography -- Part 3. Operation, Maintenance, and Troubleshooting Optical Networks -- 9. Troubleshooting Fiber Plants -- 9.1. Chapter Objectives -- 9.2. Introduction -- 9.3 Visual Inspection Techniques -- 9.4. Optical Power Measurements -- 9.5. Loss Measurements -- 9.6. Cleaning Connectors -- 9.7. Splicing Techniques -- 9.8. Using an Optical Time Domain Reflectometer -- 9.9. Summary -- 9.10. Review -- 9.11. Referred Standards -- 9.12. Selected Bibliography -- 10. Optical Network Testing and Troubleshooting Procedures -- 10.1. Chapter Objectives -- 10.2. Introduction -- 10.3. Testing and Troubleshooting Long Haul Networks -- 10.4. Troubleshooting Optical Termination Points/Short Haul Segments/Networks 10.5. Troubleshooting Cabling and Connectorization Issues -- 10.6. Troubleshooting FTTH Networks -- 10.7. Troubleshooting DWDM Networks -- 10.8. Standardization Bodies -- 10.9. Summary -- 10.10. Review -- 10.11. Referred Standards -- 10.12. Selected Bibliography -- Appendix -- Acronyms -- About the Author -- Index.

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### Sommario/riassunto

Includes the latest technological advancements and industry applications, this unique practical book provides the conceptual framework and troubleshooting tactics related to the manufacturing, selection, and installation of modern photonic networks. --

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