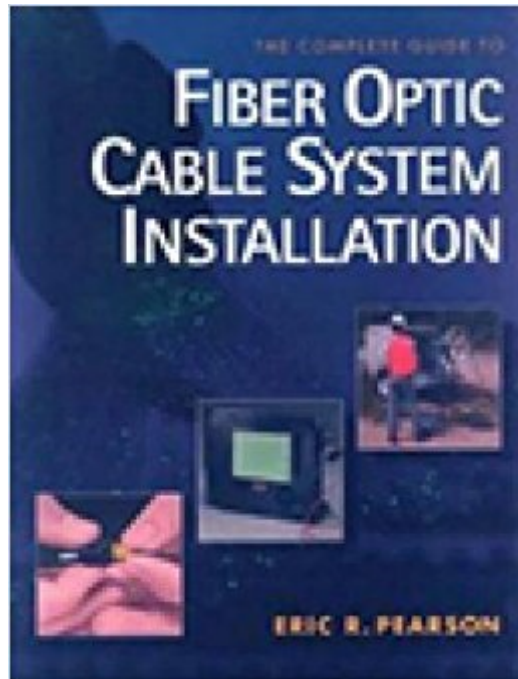




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Complete Guide To Fiber Optic Cable Systems Installation



Synopsis

This book offers comprehensive, unbiased, state-of-the-art information and procedures for installing fiber optic cable systems. It covers, in detail, all of the procedures required for installation, testing, commissioning and troubleshooting of these systems. Each chapter focuses on a specific aspect of the process including cable installation, cable end preparation, connector installation, splicing, testing and troubleshooting and contains review questions.

Book Information

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PREFACE. INTRODUCTION. FORWARD. THE BASICS OF FIBER OPTIC SYSTEMS. Chapter Objectives. Introduction. Fiber Optic Transmission Systems: Components and Functions. The Basics of Optical Fibers. Basic Cable Facts. Basic Connection Facts. Basic Transmitter and Receiver Facts. ADVANTAGES AND TYPES OF FIBER OPTIC SYSTEMS. Chapter Objectives. Introduction. Why Use Fiber Optics? Three Potential Disadvantages. How Fiber Optics is Used. Standard Products. Review Questions. HOW TO INSTALL CABLE AND PREPARE ENDS. Chapter Objectives. Introduction. 24 Guidelines for Successful Cable Installation and End Preparation. Hands-On Activities: Learn When to Handle Fiber Carefully. End Preparation Procedure for Indoor Cable Designs. End Preparation for Outdoor Cable Designs. Review Questions. CONNECTOR INSTALLATION: 4 METHODS AND 2 STYLES. Chapter Objectives. Introduction. Safety Precautions. Method #1: Epoxy, Crimp and Polish Installation of ST-Compatible Connectors.

Method #2: Preloaded and Preheated Installation of ST-Compatible Connectors. Method #3: Epoxyless, Crimp/Crimp/Polish Installation of ST-Compatible Connectors. Method #4: Anaerobic Adhesive Installation of SC Connectors. 23 Alternate Steps. How To Recognize Low Loss & High Loss Connectors Through Microscopic Inspection. Singlemode Polishing. Review Questions. HOW TO MAKE LOSS MEASUREMENTS. Chapter Objectives. Introduction. The Insertion Loss Measurement Procedure. How To Make and Interpret OTDR Measurements. The Reflectance Measurement Procedure. Review Questions. HOW TO INSTALL SPLICES PROPERLY. Chapter Objectives. Introduction. Fusion Splicing. Mechanical Splicing. Installing Splices In Trays and Enclosures. Review Questions. HOW TO CERTIFY AND TROUBLESHOOT FIBER SYSTEMS. Chapter Objectives. Introduction. Seven Questions to Answer. How to Answer the Seven Questions. Identify Common Problems in 11 Cable Systems. Review Questions. Appendices.

Offering comprehensive, state-of-the-art information about fiber optic cable systems, Pearson covers all of the procedures required for installation, testing, commissioning and troubleshooting of these systems. Other key topics include cable and preparation, connector installation and splicing.

CLEARED UP SOME MISCONCEPTIONS,

I attended a Fiber Optic class taught by Mr. Pearson and found him to be an excellent instructor. This book is written the same way he teaches and is easy to understand. Since I don't build fiber cables on a daily basis I keep this book in front of me when I do build them. If you have never been taught to build fiber cables you can learn how from this book. However, you should note that building good fiber cables takes practice no matter how you learned to build them. Read this book carefully and you can do it.

TO EVERY FIBER OPTIC TECHNICIAN I GRADUATE...I RECOMMEND THEY BUY THE BOOK BY ERIC R. PEARSON "FIBER OPTIC CABLE SYSTEM INSTALLATION"

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