Record Nr. UNINA9910811285703321 Autore Crisp John Titolo Introduction to fiber optics // John Crisp, Barry Elliott Pubbl/distr/stampa Amsterdam;; Boston,: Newnes, 2005 **ISBN** 1-281-01620-9 9786611016203 0-08-047316-4 Edizione [3rd ed.] Descrizione fisica 1 online resource (255 p.) Altri autori (Persone) ElliottBarry J Disciplina 621.36/92 Fiber optic cables Soggetti Fiber optics Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references (p. 224). Nota di contenuto Cover; Contents; Preface; 1 Optic fiber and light - a brilliant combination; 2 What makes the light stay in the fiber?; 3 The choice of frequence: 4 Propagation of light along the fiber: 5 Decibels: 6 Losses in optic fibers; 7 Dispersion and our attempts to prevent it; 8 Real cables; 9 Connecting optic fibers - the problems; 10 Fusion splicing; 11 Mechanical splices; 12 Connectors; 13 Couplers; 14 Light sources and detectors; 15 Testing a system; 16 System design - or will it work?; 17 The transmission of signals; 18 Designing an optical system and selecting components; 19 LANs and topology 20 Some final thoughts Bibliography; Glossary; Quiz time answers; Index Sommario/riassunto Introduction to Fiber Optics is well established as an introductory text for engineers, managers and students. It meets the needs of systems designers, installation engineers, electronic engineers and anyone else looking to gain a working knowledge of fiber optics with a minimum of maths. Review questions are included in the text to enable the reader to check their understanding as they work through the book. The new edition of this successful book is now fully up to date with the new standards, latest technological developments and includes a new

chapter on specifying optical co