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Autore	DeCusatis Casimer
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Nota di contenuto	front cover; copyright; table of contents; front matter; Preface; 1 Fiber, Cables, and Connectors; 1.1 Optical Fiber Principles; 1.2 Basic Terminology; 1.3 Single-Mode Fiber; 1.4 Multimode Fiber; 1.5 Fiber Bragg Gratings (FBGs); 1.6 Plastic Optical Fiber; 1.7 Cables; Chapter 1 References; 2 Transmitters; 2.1 Basic Transmitter Specification Terminology; 2.1.1 LASER SAFETY; 2.2 Light Emitting Diodes; 2.3 Lasers; 2.3.1 DOUBLE HETEROSTRUCTURE LASER DIODES; 2.3.2 QUANTUM WELL (QW) AND STRAINED LAYER (SL) QUANTUM WELL LASERS 2.3.3 DISTRIBUTED BRAGG REFLECTOR (DBR) AND DISTRIBUTED FEEDBACK (DFB) LASERS2.3.4 VERTICAL CAVITY SURFACE-EMITTING LASERS; 2.4 Modulators; 2.4.1 LITHIUM NIOBATE MODULATORS; 2.4.2 ELECTROABSORPTION MODULATORS; 2.4.3 ELECTRO OPTIC AND ELECTROREFRACTIVE SEMICONDUCTOR MODULATORS; Chapter 2 References; 3 Detectors and Receivers; 3.1 Basic Detector Specification Terminology; 3.2 PN Photodiode; 3.3 PIN Photodiode; 3.4 Other Detectors; 3.4.1 AVALANCHE PHOTODIODE; 3.4.2 PHOTODIODE ARRAY; 3.4.3 SCHOTTKY-BARRIER PHOTODIODES; 3.4.4 METAL-SEMICONDUCTOR-METAL (MSM) DETECTORS 3.4.5 RESONANT-CAVITY ENHANCED PHOTODETECTORS (RECAP)3.4.6 INTERFEROMETRIC SENSORS; 3.5 Noise; 3.5.1 SHOT NOISE; 3.5.2

THERMAL NOISE; 3.5.3 OTHER NOISE SOURCES; 3.5.4 SIGNAL-TO-NOISE RATIO; Chapter 3 References; 4 Fiber Optic Link Design; 4.1 Figures of Merit; 4.2 Link Budget Analysis; 4.2.1 INSTALLATION LOSS; 4.2.2 TRANSMISSION LOSS; 4.2.3 ATTENUATION VS. WAVELENGTH; 4.2.4 CONNECTOR AND SPLICE LOSS; 4.3 Optical Power Penalties; 4.3.1 DISPERSION; 4.3.2 MODE PARTITION NOISE; 4.3.3 RELATIVE INTENSITY NOISE; 4.3.4 JITTER; 4.3.5 MODAL NOISE; 4.3.6 RADIATION INDUCED LOSS; Chapter 4 References
 5 Repeaters and Optical Amplifiers 5.1 Repeaters; 5.2 Optical Amplifiers; 5.2.1 RARE EARTH DOPED OPTICAL FIBER AMPLIFIERS; 5.2.2 SEMICONDUCTOR AMPLIFIERS; 5.2.3 NONLINEAR EFFECTS AND OPTICAL AMPLIFIERS FOR WDM; Chapter 5 References; 6 Wavelength Multiplexing; 6.1 WDM Design Considerations; 6.2 Network Topologies; 6.3 Latency; 6.4 Protection and Restoration; 6.5 Network Management; Chapter 6 References; Chapter 6 Further Reading; 7 Fiber Optic Communication Standards; 7.1 Why Do We Need Standards?; 7.2 ESCON/SBCON; 7.3 Fiber Distributed Data Interface; 7.4 Fibre Channel Standard; 7.5 ATM/SONET
 7.6 Gigabit Ethernet 7.7 InfiniBand; Chapter 7 References; 8 Fabrication and Measurement; 8.1 Fabrication Techniques; 8.1.1 FIBER DRAWING: LIQUID PHASE METHODS; 8.1.2 FIBER DRAWING: CHEMICAL VAPOR DEPOSITION; 8.2 Fiber Bragg Gratings; 8.3 Semiconductor Device Fabrication; 8.4 Measurement Equipment; 8.4.1 FIBER OPTIC POWER METER; 8.4.2 OPTICAL TIME DOMAIN REFLECTOMETER; 8.4.3 BIT ERROR RATE TEST (BERT); 8.4.4 DIGITAL SAMPLING OSCILLOSCOPE; Chapter 8 References; 9 Medical Applications; 9.1 Endoscopes; 9.1.1 RIGID ENDOSCOPES; 9.1.2 THE CLINICAL ENVIRONMENT; 9.2 Laser Fibers; 9.2.1 APPLICATIONS
 9.3 Illumination

Sommario/riassunto

This book is a MUST for everyone in and around the optics community! Fiber Optic Essentials provides professionals and students new to the field of fiber optics with a high-level knowledge of principles, theories and applications. This primer can also be used as a succinct overview of optics for those with some engineering and physics background. Individuals involved with optics in non-traditional capacities such as in marketing and legal departments will find this volume introduces basic concepts completely in an easy to read format. Casimer and Carolyn DeCusatis

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approach; 1. The contribution of dialect data to theories of language change; 1.1 The generative tradition
 1.2 Usage-based theories of language structure and language change
 2. The North Mid C dialect area; 3. Sound change and lexical frequency;
 4. Frequency effects in the North Mid C dialect; 4.1 Measuring lexical frequency; 4.2 Lexical frequency and th-fronting in the North Mid C dialect; 4.3 Lexical frequency and BIT variation in the North Mid C dialect; 5. Conclusions; References; Dialect areas and linguistic change;
 1. Introduction; 2. The Standard Spanish paradigm and the dialect phenomena known as leísmo, laísmo and loísmo
 3. Ibero-Romance dialect grammar in the Audible Corpus of Spoken Rural Spanish 4. The paradigms in the North; 4.1 The Eastern Asturian paradigm; 4.2 The Basque Spanish paradigm; 4.3 The Cantabrian paradigm; 5. The Centre paradigms; 6. Discussion and conclusions; 6.1 The paradigms from a linguistic and social typology perspective; 6.2 Difussionist models and historical reconstruction; 6.3 Final conclusions; References; The role of implicational universals in language change; 1. The sedentary-Bedouin split in dialects of Tunisian Arabic; 2. Data
 3. The connection between pronominal and verbal marking 4. Contact-induced change; 5. The search for explanation; 6. A proposed hypothesis; References; On the genesis of the German recipient passive - Two competing hypotheses in the light of current; 1. Introduction; 2. Two competing hypotheses on the genesis of the recipient passive; 3. Results and problems of historical corpus analyses; 4. Kriegen in the light of current dialect data; 5. Summary; References; Paths to tone in the Tamang branch of Tibeto-Burman (Nepal); 1. Introduction; 1.1 Reconstruction and variation inter- or intra- dialect
 1.2 Intermediate or unstable stages and general linguistics

Sommario/riassunto

Much theorizing in language change research is made without taking into account dialect data. Yet, dialects seem to be superior data to build a theory of linguistic change on, since dialects are relatively free of standardization and therefore more tolerant of variant competition in grammar. In addition, as compared to most cross-linguistic and diachronic data, dialect data are unusually high in resolution. This book shows that the study of dialect variation has indeed the potential, perhaps even the duty, to play a central role in the process of finding answers to fundamental questions of the

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