

1.	Record Nr.	UNINA990009616280403321
	Autore	Servizio geologico nazionale
	Titolo	Castrovillari [Documento cartografico] / Servizio geologico d'Italia
	Pubbl/distr/stampa	Roma : Arte litografica italiana, 1971
	Edizione	[2. ed.]
	Descrizione fisica	1 carta : color. ; 53 x 37 cm su foglio 90 x 60 cm
	Collana	Carta geologica d'Italia ; 221
	Locazione	ILFGE
	Collocazione	MP Cass.2 Geol. 100 (221)
	Lingua di pubblicazione	Italiano
	Formato	Materiale cartografico a stampa
	Livello bibliografico	Monografia
	Note generali	Il meridiano di riferimento è Monte Mario, Roma
2.	Record Nr.	UNINA9910792135703321
	Autore	Morthier Geert
	Titolo	Handbook of Distributed Feedback Laser Diodes
	Pubbl/distr/stampa	Norwood : , : Artech House, , 2013 [Piscataway, New Jersey] : , : IEEE Xplore, , [2013]
	ISBN	1-5231-1724-9 1-60807-702-0
	Edizione	[Second edition.]
	Descrizione fisica	1 online resource (397 p.)
	Collana	Artech House applied photonics library
	Altri autori (Persone)	VankwikelbergePatrick
	Disciplina	621.3661
	Soggetti	Solid-state lasers Semiconductor lasers Diodes, Semiconductor
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Previous edition: 1997.
	Nota di bibliografia	Includes bibliographical references.

Nota di contenuto

Title; Contents; Preface; CH01 Introduction to Fabry-Perot and Distributed Feedback Laser Diodes; 1.1 Historical Background; 1.2 Laser Diode Device Structure; 1.3 Operation of the Laser Diode; 1.4 Essential Laser Diode Characteristics; 1.5 Use of Laser Diodes in Optical Communications Systems; 1.6 Dynamic Single-Mode Laser Diodes; 1.7 Organization of This Book; CH02 Rate Equation Theory of Laser Diodes; 2.1 Introduction; 2.2 Carrier Density Rate Equation; 2.3 Photon Density Rate Equation; 2.4 Phase Equations; 2.5 Introducing Noise in the Rate Equations; 2.6 Optical Gain and Absorption. 2.7 Some Well-Known Solutions of the Rate Equations 2.8 The Influence of External Reflections; 2.9 Summary; CH03 Coupled-Mode Theory of DFB Laser Diodes; 3.1 The Physical Processes Inside a Laser Diode; 3.2 The Need for Simplification; 3.3 Assumptions about the Modeled Laser Structure; 3.4 Optical Wave Propagation; 3.5 Discussion of the Coupled-Mode Wa.

Sommario/riassunto

Since the first edition of this book was published in 1997, the photonics landscape has evolved considerably and so has the role of distributed feedback (DFB) laser diodes. Although tunable laser diodes continue to be introduced in advanced optical communication systems, DFB laser diodes are still widely applied in many deployed systems. This also includes wavelength tunable DFB laser diodes and DFB laser diode arrays, usually integrated with intensity or phase modulators and semiconductor optical amplifiers. This valuable resource gives professionals a comprehensive description of the different effects that determine the behavior of a DFB laser diode. Special attention is given to two new chapters on wavelength tunable DFB laser diodes and bistable and unstable DFB laser diodes. Among many other updates throughout the reference, semi-conductor and electromagnetic professionals are also provided two new appendices. This book fully covers the underlying theory, commercial applications, necessary design criteria, and future direction of this technology.
