

1. Record Nr.	UNINA9910786244003321
Titolo	High-speed photonics interconnects // edited by Lukas Chrostowski, Krzysztof Iniewski
Pubbl/distr/stampa	Boca Raton, Fla. : , : Taylor & Francis, , 2013
ISBN	1-351-83226-3 1-315-21637-X 1-4665-1604-6
Edizione	[1st edition]
Descrizione fisica	1 online resource (217 p.)
Collana	Devices, Circuits, and Systems
Classificazione	COM043000TEC008010TEC019000
Altri autori (Persone)	ChrostowskiLukas IniewskiKrzysztof
Disciplina	621.36/5
Soggetti	Interconnects (Integrated circuit technology) Optical interconnects Photonics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Front Cover; Contents; Preface; Editors; Contributors; Chapter 1 - Energy-Efficient Photonic Interconnects for Computing Platforms; Chapter 2 - Low-Loss, High-Performance Chip-to-Chip Electrical Connectivity Using Air-Clad Copper Interconnects; Chapter 3 - Silicon Photonic Bragg Gratings; Chapter 4 - Lasers for Optical Interconnects; Chapter 5 - Vertical-Cavity Surface-Emitting Lasers for Interconnects; Chapter 6 - High-Speed Photodiodes and Laser Power Converters for the Applications of Green Optical Interconnect; Chapter 7 - Quantum-Dot Nanophotonics for Photodetection Chapter 8 - Rolled-Up Semiconductor Tube Optical CavitiesBack Cover
Sommario/riassunto	The book is designed to achieve two goals. It assembles the latest research in the field of photonics interconnects technology and exposes the reader to the myriad applications that this technology has enabled. The book is mean for advanced graduate researchers, as well as for academicians and professional researchers. Composed of work from experts at leading academic institutions and semiconductor companies, such as Intel, PMC-Sierra, and Vitesse, this resource will have a widespread appeal, as it requires minimal math and contains

numerous illustrations--
