

Embedded Systems

Ian O'Connor
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Integrated Optical Interconnect Architectures for Embedded Systems

 Springer

Integrated Optical Interconnect Architectures For Embedded Systems

Ravindra A. Athale



Integrated Optical Interconnect Architectures For Embedded Systems:

Integrated Optical Interconnect Architectures for Embedded Systems Ian O'Connor, Gabriela Nicolescu, 2012-11-07 This book provides a broad overview of current research in optical interconnect technologies and architectures Introductory chapters on high performance computing and the associated issues in conventional interconnect architectures and on the fundamental building blocks for integrated optical interconnect provide the foundations for the bulk of the book which brings together leading experts in the field of optical interconnect architectures for data communication Particular emphasis is given to the ways in which the photonic components are assembled into architectures to address the needs of data intensive on chip communication and to the performance evaluation of such architectures for specific applications *Optoelectronic Interconnects for Integrated Circuits* Henk Neefs, 2000 *Network Architectures, Management, and Applications*, 2005 *Signal*, 1993 Proceedings of the IEEE 1995 National Aerospace and Electronics Conference, NAECON 1995, 1995 Optical Interconnects for Data Centers Tolga Tekin, Nikos Pleros, Richard Pitwon, Andreas Hakansson, 2016-11-01 Current data centre networks based on electronic packet switches are experiencing an exponential increase in network traffic due to developments such as cloud computing Optical interconnects have emerged as a promising alternative offering high throughput and reduced power consumption Optical Interconnects for Data Centers reviews key developments in the use of optical interconnects in data centres and the current state of the art in transforming this technology into a reality The book discusses developments in optical materials and components such as single and multi mode waveguides circuit boards and ways the technology can be deployed in data centres Optical Interconnects for Data Centers is a key reference text for electronics designers optical engineers communications engineers and R D managers working in the communications and electronics industries as well as postgraduate researchers Summarizes the state of the art in this emerging field Presents a comprehensive review of all the key aspects of deploying optical interconnects in data centers from materials and components to circuit boards and methods for integration Contains contributions that are drawn from leading international experts on the topic **Host Bibliographic Record for Boundwith Item Barcode 30112097012535 and Others**, 2013 Micro- and Nano-optics for Optical Interconnection and Information Processing Mohammad R. Taghizadeh, Hugo Thienpont, Ghassan E. Jabbour, 2001 **Miniaturized Systems with Micro-optics and Micromechanics**, 1998 *SPIE 1991 Publications Index*, 1992 *Optical Interconnects in Broadband Switching Architectures* Thomas J. Cloonan, 1996 *Micro-optics, VCSELs, and Photonic Interconnects*, 2004 *ITHERM*, 2000 **Electrical & Electronics Abstracts**, 1997 **International Aerospace Abstracts**, 1998 **13th Symposium on Integrated Circuits and Systems Design** Ricardo Augusto da Luz Reis, Jose Carlos Monteiro, Wilhelmus Van Noije, 2000 These papers are taken from 13th Brazilian Symposium on Integrated Circuit Design SBCCI 2000 They address issues such as microarchitectures architecture logic design analogue design high level synthesis digital design physical modelling reconfigurable hardware and more Digital

Optical Computing Ravindra A. Athale,1990 SPIE Critical Reviews cover a variety of optics related topics **Optical**
Interconnection Christopher Tocci,1994 For the first time ever leading experts in the field introduce optical designs for
handling the efficient routing of photonic information This book fully explains electrical versus optical issues the promise an
diversity of optical interconnection and the advantages costs and tradeoffs *SPIE ... Publications Index* ,1991 **ITherm**
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