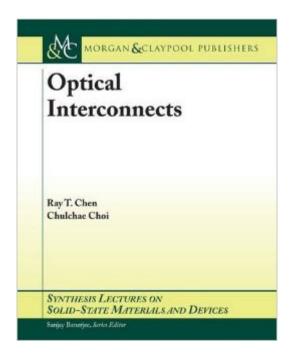
The book was found

Optical Interconnects (Synthesis Lectures On Solid-State Materials And Devices)





Synopsis

This book describes fully embedded board level optical interconnect in detail including the fabrication of the thin-film VCSEL array, its characterization, thermal management, the fabrication of optical interconnection layer, and the integration of devices on a flexible waveguide film. All the optical components are buried within electrical PCB layers in a fully embedded board level optical interconnect. Therefore, we can save foot prints on the top real estate of the PCB and relieve packaging difficulty reduced by separating fabrication processes. To realize fully embedded board level optical interconnects, many stumbling blocks need to be addressed such as thin-film transmitter and detector, thermal management, process compatibility, reliability, cost effective fabrication process, and easy integration. The material presented eventually will relieve such concerns and make the integration of optical interconnection highly feasible. The hybrid integration of the optical interconnection layer and electrical layers is ongoing.

Book Information

Series: Synthesis Lectures on Solid-State Materials and Devices (Book 2)

Paperback: 104 pages

Publisher: Morgan and Claypool Publishers (October 1, 2006)

Language: English

ISBN-10: 1598290665

ISBN-13: 978-1598290660

Product Dimensions: 7.5 x 0.2 x 9.2 inches

Shipping Weight: 9.1 ounces (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #2,878,554 in Books (See Top 100 in Books) #63 in Books > Engineering &

Transportation > Engineering > Electrical & Electronics > Electronics > Solid State #1366

in Books > Science & Math > Physics > Optics #4074 in Books > Textbooks > Engineering >

Mechanical Engineering

Download to continue reading...

Optical Interconnects (Synthesis Lectures on Solid-State Materials and Devices) Advanced Mos Devices (Modular Series on Solid State Devices, Vol 7) Mosfet Modeling for VLSI Simulation: Theory And Practice (International Series on Advances in Solid State Electronics) (International Series on Advances in Solid State Electronics and Technology) The Physics And Modeling of Mosfets (International Series on Advances in Solid State Electronics) (International Series on

Advances in Solid State Electronics and Technology (Unnumbered)) Towards Solid-State Quantum Repeaters: Ultrafast, Coherent Optical Control and Spin-Photon Entanglement in Charged InAs Quantum Dots (Springer Theses) Optical Processes in Semiconductors (Prentice-Hall electrical engineering series. Solid state physical electronics series) Semiconductor Fundamentals Volume Modular (Modular series on solid state devices) Solid State Electronic Devices (5th Edition) Solid State Electronic Devices (6th Edition) Solid State Electronic Devices Fundamentals of Network Analysis and Synthesis (Prentice-Hall electrical engineering series. Solid state physical electronics series. Prentice-Hall networks series) Low-Dimensional and Nanostructured Materials and Devices: Properties, Synthesis, Characterization, Modelling and Applications (NanoScience and Technology) Electronic, Magnetic, and Optical Materials (Advanced Materials and Technologies) The Solid State: An Introduction to the Physics of Crystals for Students of Physics, Materials Science, and Engineering (Oxford Physics Series) Bibliography of Magnetic Materials and Tabulation of Magnetic Transition Temperatures (Solid State Physics Literature Guides) Fatigue of Materials (Cambridge Solid State Science Series) Second Edition Fatigue of Materials (Cambridge Solid State Science Series) Handbook of Optical Fibers and Cables, Second Edition (Optical Science and Engineering) Photonics Rules of Thumb: Optics, Electro-Optics, Fiber Optics, and Lasers (Optical and Electro-Optical Engineering Series) Introduction to Optical Communication, Lightwave Technology, Fiber Transmission, and Optical Networks

<u>Dmca</u>