



Handbook of Optical Interconnects (Optical Science and Engineering)

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As we reach the data transmission limits of copper wire and communications experts seek to bring the speed of long-haul fiber optics networks closer to access points, optical interconnects promise to provide efficient, high-speed data transmission for the next generation of networks and systems. They offer higher bit-rates, virtually no crosstalk, lower demands on power requirements and thermal management, and the possibility of two-dimensional channel arrays for chip-to-chip communication.

The Handbook of Optical Interconnects introduces the systems and devices that will bring the speed and quality of optical transmission closer to the circuit board. Contributed by active experts, most from leading technology companies in the US and Japan, this outstanding handbook details various low-cost and small-size configurations, illustrates the discussion with more than 300 figures, and offers a look at the applications and future of this exciting and rapidly growing field. The book includes a detailed introduction to vertical cavity surface-emitting lasers (VCSELs); the use of optical interconnects in metropolitan, local-area, and access networks through FTTP (FTTH); and Jisso technologies, which are critical for developing low-cost, small-size modules.

Driving down the size and cost of optical interconnects is vital for integrating these technologies into the network and onto microprocessors, and the Handbook of Optical Interconnects provides the knowledge and tools necessary to accomplish these goals.

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