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| Sommario/riassunto | All-optical wavelength converters (AOWC) are considered key to overcome wavelength blocking issues in next generation transparent networks. The focus of this book is on semiconductor optical amplifiers (SOA), a mature nonlinear element with very favorable nonlinear characteristics, and on a discussion of various filter configurations as well as on their adaptations for providing optimum performance matched to the nonlinear element working in high-speed all-optical wavelength converters. |