



Wavelength Conversion using Nonlinear Effects in Optical Fibers

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Application of Nonlinear Fiber Optics | Wavelength conversion has been acknowledged as one of the most significant optical processing functions. Ultra-high data rate all-optical wavelength conversion is an enabling technology for providing wavelength flexibility, increasing the capacity of photonics networks and enhancing optimized all-optical routing and switching. Several all-optical wavelength conversion approaches have been studied and investigated, which are based on nonlinearities in optical fibers. Nonlinear effects mainly applied in fiber-based wavelength conversion are four wave mixing (FWM) and self phase modulation (SPM), all of which originate from the Kerr effect. However, to make use of this nonlinear phenomenon in optical signal processing, this requires that a suitable fiber be available. In this book, wavelength conversion based on both SPM and FWM at 1550 nm has been demonstrated using different types of fibers. A numerical simulation is used to predict the performance of each type of fiber and to address the potential of each fiber type in wavelength conversion applications. | Format: Paperback | Language/Sprache: english | 104 pp.



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