Title (en)
METHOD FOR HIGHER-ORDER DISPERSION COMPENSATION

Title (de)
VERFAHREN ZUR DISPERSIONSKOMPENSATION HÖHERER ORDNUNG

Title (fr)
PROCEDE DE COMPENSATION DE DISPERSION D'ORDRE ELEVE

Publication
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Application
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Abstract (en)
[origin: WO03058858A2] A method for compensating for higher-order dispersion of an incoming optical communications signal in accordance with the present invention includes the steps of compensating the signal for first order polarization mode dispersion; compensating the signal for second order polarization mode dispersion; and compensating the signal for variable chromatic dispersion. Additionally, the method may include the steps of compensation for fixed chromatic dispersion and controlling the polarization of the incoming signal. The signal may be monitored after the compensating steps and the degree of compensation may be tuned based on the monitoring. The step of compensating the signal for first order polarization mode dispersion may include the steps of controlling the polarization of the signal; splitting the signal into a first and a second orthogonal polarization components; reflecting the first polarization component in a fixed linearly chirped grating; reflecting the second polarization component in a tuned linearly chirped grating; and recombining the first and the second polarization components.

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