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variation of chromatic dispersion in optical fibers

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The optical fiber is the privileged channel of transmission for broad-band communications. To respond to increasing needs, it is essential to improve the characteristics of optical fibers, primarily those relating to the chromatic dispersion. This negative phenomenon limits the transmission rates. This has the effect to canceling the chromatic dispersion only for the wavelengths above than 1270 nm.
In this paper, we are interested in applications of new generation of optical fiber (FMAS) dedicate to the optical telecommunication such as the chromatic dis-persion.
Our studies concern the optimization of the parameters in FMAS to modeling the chromatic dispcersion by the Beam Propagation Method (BPM).

Topics

Session C. Applied optics and engineering

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