

## Power splitter based on photonic crystal fibers

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Optical fiber has become the most widely used transmission medium for high speed applications. However, the standard fiber has several limitations such as chromatic dispersion ...

In order to overcome these limitations, air / silica microstructured fibers (FMAS) appear with original propagation properties. These FMAS consist of a periodic arrangement of air channels parallel to the direction of propagation in a matrix of pure silica with the elimination of a channel in the center of the structure thus forming the heart of the fiber. This new optical fiber, which gives it new properties, all these properties have made it possible to integrate these fibers in several fields such as telecommunications, sensors, etc.

### Topics

Session C. Applied optics and engineering

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