



Optical Fiber Telecommunications VIB: Chapter 12. Multimode Communications Using Orbital Angular Momentum (Optics and Photonics)

Jian Wang, Miles J. Padgett, Siddharth Ramachandran, Martin P.J. Lavery, Hao Huang, Yang Yue, Yan Yan, Nenad Bozinovic, Steven E. Golowich, Alan E. Willner

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In this chapter, we provide a comprehensive review of multimode communications using OAM. The fundamentals of OAM are introduced first followed by the techniques for OAM generation, multiplexing/demultiplexing, and detection. We then present recent research efforts to free-space communication links and fiber-based transmission links using OAM multiplexing together with optical signal processing using OAM (data exchange, add/drop, multicasting, monitoring, and compensation). Future challenges of OAM communications are discussed at the end.

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