

Optical Fiber Telecommunications VIA: Chapter 1. Advances in Fiber Distributed-Feedback Lasers (Optics and Photonics)

Michalis N. Zervas



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This chapter covers advances in fiber distributed-feedback (DFB) lasers and their potential use in modern coherent optical telecommunication systems. In particular, it describes novel DFB cavity designs and configurations and considers their impact on the laser performance. Special emphasis is given to the fiber parameters that define the power scalability and stability, the polarization performance, as well as the linewidth and phase noise characteristics. The wavelength coverage and tunability mechanisms are also discussed. The chapter finally reviews the use of fiber DFB lasers in non-telecom applications, such as advanced optical fiber sensors, and concludes with an outlook of the fiber laser technologies and their future prospects.

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