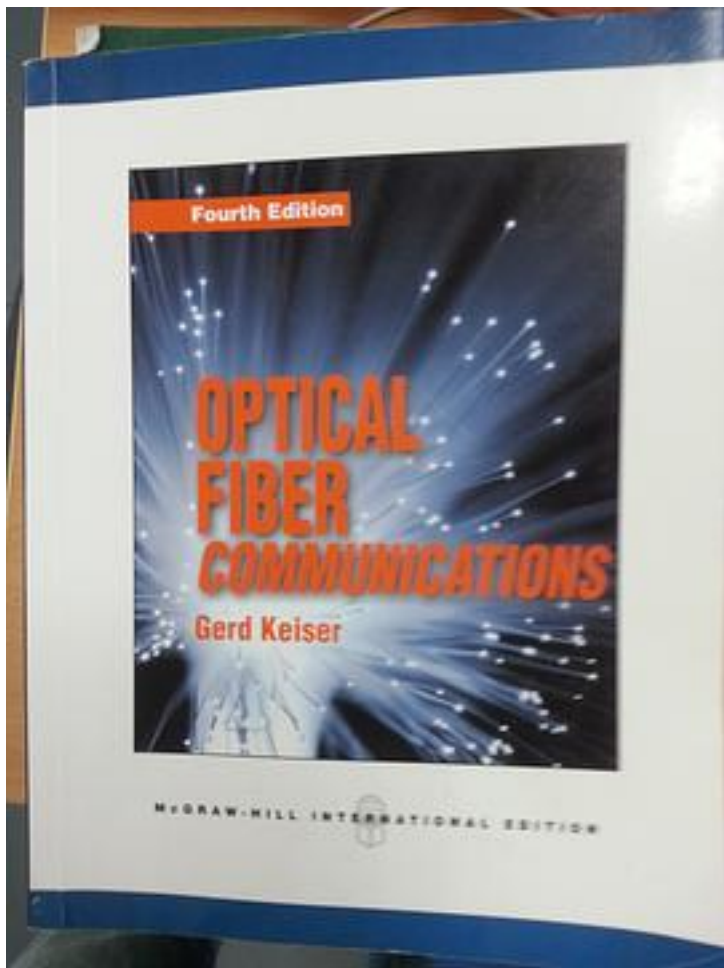


# Optical Fiber Communications



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Optical-fiber-based telecommunication networks have become a major information-transmission-system, with high capacity links encircling the globe in both

terrestrial and undersea installations. Numerous passive and active optical devices within these links perform complex transmission and networking functions in the optical domain, such as signal amplification, restoration, routing, and switching. Along with the need to understand the functions of these devices comes the necessity to measure both component and network performance, and to model and stimulate the complex behavior of reliable high-capacity networks. Keiser provides an excellent introduction to the field for those entering the optical communications arena. He progresses from the fundamental bases for electromagnetic propagation in dielectric waveguides to specific practices and principles related to implementation of optical fiber in communications systems. Although the treatment of some commonplace modulation techniques in current practice is a bit light, this volume definitely helps to get one's feet wet in the discipline. Highly recommended for students, as well as those just entering the professional arena.

作者介绍:

目录:

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