

# MONOMODE FIBER-OPTIC DESIGN

WITH LOCAL-AREA  
AND LONG-HAUL NETWORK  
APPLICATIONS

Donald G. Baker



Springer

# Monomode Fiber Optic Design

**Roger L. Freeman**

## Monomode Fiber Optic Design:

**Monomode Fiber-Optic Design** Donald G. Baker,2012-12-06 Fiber optics is a transmission technique that uses electrical signals to modulate a light source and thereby produce an optical signal proportional to the electrical signal. These optical signals contain information that is transmitted via a glass waveguide to a light sensitive receiver. Fiber optics has a distinct advantage over copper networks for some applications. The objective of this book is to explore monomode as opposed to multimode applications of fiber optics to local area networks LANs which have become a rather important aspect of this technology because of the ever increasing growth of LANs. Monomode fiber optics requires the use of coherent light sources such as laser diodes YAGs and HeNe lasers to name just a few. It has some distinct advantages over multimode that this text will investigate in a cursory manner. The author's previous book on multimode fiber optics *Fiber Optic Design and Applications* published by Reston would be helpful but not necessary to augment this text. Monomode or single mode fiber optics is the present direction of the state of the art because of its superior performance. Since a few problems existed that limited the growth of monomode technology at the time this book was being written several sections of the text will be devoted to examining the shortcomings as well as the performance advantages of this technology.

[Monomode fiber optic fiber-optic design](#) Donald G. Baker,1987

**Fiber Optic Design Considerations** IGIC, Inc. Staff,1994

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[Single Mode Optical Fibers](#) A. David Pearson,1983

**Fiber Optic Couplers, Connectors, and Splice Technology II** David W.

Stowe,1985

[Fiber Optics '87](#) Lionel R. Baker,1987

**Fiber Optics Handbook** Frederick C. Allard,1990

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[Fiber Lasers and All-optical Logic Gates for Header Processing in High-bit-rate Optical Networks](#) Brandon Craig Barnett,1996

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[Selected Papers on Infrared Fiber Optics](#) James A.

Harrington,1990

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