



### Fiber Optic Measurement Techniques

Rongqing Hui & Maurice O'Sullivan

*"This book is an authoritative and comprehensive treatment of fiber-optic measurement techniques, including not only fundamental principles and methodologies but also various instrumentations and practical implementations. It is an excellent up-to-date resource and reference for the academic and industrial researcher as well as the field engineer in manufacturing and network operations."* – Dr. Tingye Li, AT&T Labs (retired)

**Fiber Optic Measurement Techniques** is an indispensable collection of key optical measurement techniques essential for developing and characterizing today's photonic devices and fiber optic systems. The book gives comprehensive and systematic descriptions of various fiber optic measurement methods with the emphasis on the understanding of optoelectronic signal processing methodologies, helping the reader to weigh up the pros and cons of each technique and establish their suitability for the task at hand.

Carefully balancing descriptions of principle, operations and optoelectronic circuit implementation, this indispensable resource will enable the engineer to:

- Understand the implications of various measurement results and system performance qualifications
- Characterize modern optical systems and devices
- Select optical devices and subsystems in optical network design and implementation
- Design innovative instrumentations for fiber optic systems

This book brings together in one volume the fundamental principles with the latest techniques, making it a complete resource for the optical and communications engineer developing future optical devices and fiber optic systems.

**TABLE OF CONTENTS:**

Fundamentals of Optical Devices; Basic Instrumentation for Optical Measurement; Characterization of Optical Devices; Optical Fiber Measurement; Optical System Performance Measurements

**ISBN 13:** 978-0-12-373865-3

**PUB DATE:** December 2008

**LIST PRICE:** \$99.95  
£59.99  
€36.95

**FORMAT:** Hardback

**PAGES:** 672

**TRIM SIZE:** 229 X 152 mm

Elsevier communications engineering titles: <http://www.elsevierdirect.com/article.jsp?pageid=6729>

For further information and to order this book please visit [www.elsevierdirect.com](http://www.elsevierdirect.com) or use the following contacts

Customers in EUROPE, MIDDLE EAST & AFRICA  
 Email: [directorders@elsevier.com](mailto:directorders@elsevier.com)  
 Telephone: +44 (0) 1865 474010  
 Fax: +44(0) 1865 474011  
 Mail: Elsevier Ltd, Linacre House, Jordan Hill  
 Oxford OX2 8DP  
 Postal Charges: UK £2.95; Europe £6.95; Rest of World £10.95

Customers in the AMERICAS  
 Email: [directorders@elsevier.com](mailto:directorders@elsevier.com)  
 Telephone: 800-545-2522  
 Fax: 800-568-5135 or 314-453-7095  
 Mail: Elsevier Customer Services, Order Fulfillment,  
 11830 Westline Industrial Drive, St. Louis, MO 613146  
 USA  
 Postage: Free in North America. Check website for other territories