



Photodetection and Measurement: Maximizing Performance in Optical Systems

By Mark Johnson Dr.

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This text takes an interdisciplinary approach to international business, building on the various business disciplines that make up the field. In-depth integration is provided throughout the book, as well as via a concluding section on international strategic alliances and a series of integrated case studies. The book is aimed at providing cutting-edge, rigorous knowledge, while incorporating a solid theoretical base and information from research and the corporate world in an accessible format.

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Editorial Review

From the Back Cover

MAKE OPTICAL MEASUREMENTS WITH MAXIMUM ACCURACY AND MINIMUM COST

The "opto-electronics revolution" has made the art and science of making sensitive, accurate, and inexpensive optical measurements must-know information for legions of electronic engineers and research students. And there's no faster or easier way to master photodetection and measurement techniques than with this hands-on tutorial written by a teacher with experience enough to know the questions you would ask.

A clear, easy-to-understand "rules-of-thumb" approach shows you how to make high-performance optical measurements by getting the fundamentals right, often with simple, inexpensive equipment commonly found in laboratories. It includes treatment of:

- * Photodetectors
- * Amplifiers
- * LED sources
- * Electronic modulation and demodulation
- * Interference avoidance
- * Data acquisition and basic DSP

You'll also gain a firm understanding of noise-reduction techniques and the essentials of building-in speed, sensitivity, and stability. If you want to learn the secret of making sound optical measurements without expensive equipment, this is the one resource you shouldn't work without.

About the Author

Mark Johnson, Ph.D is an independent consultant in opto-electronics and measurement innovation. He is a visiting professor at Salford University in England and St. Etienne University in France and has managed corporate research teams in the United Kingdom, the United States, and Germany. Dr. Johnson resides in Cheshire, England.

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