



## Optical Methods of Measurement: Wholefield Techniques, Second Edition (Optical Science and Engineering)

By Rajpal Sirohi

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The book explores the propagation of laser beams, metrological applications of phase-singular beams, various detectors such as CCD and CMOS devices, and recording materials. It also covers interference, diffraction, and digital fringe pattern measurement techniques, with special emphasis on phase measurement interferometry and algorithms. The remainder of the book focuses on theory, experimental arrangements, and applications of wholefield techniques. The author discusses digital hologram interferometry, digital speckle photography, digital speckle pattern interferometry, Talbot interferometry, and holophotoelasticity.

This updated book compiles the major wholefield methods of measurement in one volume. It provides a solid understanding of the techniques by describing the physics behind them. In addition, the examples given illustrate how the techniques solve measurement problems.

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**Optical Methods of Measurement: Wholefield Techniques, Second Edition (Optical Science and Engineering) By Rajpal Sirohi Bibliography**

- Sales Rank: #6940202 in Books
- Brand: Brand: CRC Press
- Published on: 2009-06-26
- Original language: English
- Number of items: 1
- Dimensions: 9.30" h x .80" w x 6.20" l, 1.30 pounds
- Binding: Hardcover
- 316 pages

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### Editorial Review

About the Author

**Rajpal S. Sirohi** is currently the vice chancellor of Amity University. Prior to this, he was the vice chancellor of Barkatullah University and director of the Indian Institute of Technology Delhi. The recipient of many international awards and author of more than 400 papers, Dr. Sirohi is involved with research concerning optical metrology, optical instrumentation, holography, and speckle phenomenon.

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