



# Laser Beam Propagation through Random Media, Second Edition (SPIE Press Monograph Vol. PM152)

*By Larry C. Andrews, Ronald L. Phillips*

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Since publication of the first edition of this text in 1998, there have been several new, important developments in the theory of beam wave propagation through a random medium, which have been incorporated into this second edition. Also new to this edition are models for the scintillation index under moderate-to-strong irradiance fluctuations; models for aperture averaging based on ABCD ray matrices; beam wander and its effects on scintillation; theory of partial coherence of the source; models of rough targets for lidar applications; phase fluctuations; analysis of other beam shapes; plus expanded analysis of free-space optical communication systems and imaging systems.

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- Basic Theory
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- Sales Rank: #1262400 in Books
- Brand: SPIE Publications
- Published on: 2005-09
- Original language: English
- Number of items: 1
- Dimensions: 10.00" h x 7.25" w x 2.00" l, .0 pounds

- Binding: Hardcover
- 820 pages

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