



Light Propagation in Linear Optical Media

Glen D. Gillen, Katharina Gillen, Shekhar Guha

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Light Propagation in Linear Optical Media describes light propagation in linear media by expanding on diffraction theories beyond what is available in classic optics books. In one volume, this book combines the treatment of light propagation through various media, interfaces, and apertures using scalar and vector diffraction theories.

After covering the fundamentals of light and physical optics, the authors discuss light traveling within an anisotropic crystal and present mathematical models for light propagation across planar boundaries between different media. They describe the propagation of Gaussian beams and discuss various diffraction models for the propagation of light. They also explore methods for spatially confining (trapping) cold atoms within localized light-intensity patterns.

This book can be used as a technical reference by professional scientists and engineers interested in light propagation and as a supplemental text for upper-level undergraduate or graduate courses in optics.



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