



Optical Holography

Robert Collier

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Optical Holography deals with the use of optical holography to solve technical problems, with emphasis on the properties of holograms formed with visible light. Topics covered include the Fourier transform, propagation and diffraction, pulsed-laser holography, and optical systems with spherical lenses. A geometric analysis of point-source holograms is also presented, and holograms and hologram spatial filters formed with spatially modulated reference waves are described.

This book is comprised of 20 chapters and begins with an introduction to concepts that are basic to understanding holography, from interference patterns and diffraction to hologram formation, basic holography equations, and partial coherence. The next chapter focuses on early developments in holography, paying particular attention to Bragg's X-ray microscope, X-ray holography, and the beginnings of optical holography. The discussion then turns to light sources for hologram formation; analysis of plane holograms; diffraction from volume holograms; and real-image applications of holographic methods. The remaining chapters explore holographic interferometry, color holography, and computer-generated holograms. The final chapter deals with hologram replication, television transmission of holograms, and formation of holograms using spatially incoherent subject light.

This monograph will be a useful resource for electron microscopists, electrical engineers, opticians, physicists, chemists, and others interested in optical holography.

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