



Holography: Expanded and Revised from the French Edition

M Francon

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Holography reviews advances in the field of holography and its various applications in areas such as interferometry, microscopy, and acoustics. Topics range from acoustic holography to image multiplexing, formation of images in holography, and holography by computer. Some experiments based on Gabor's holography are also presented.

This book is comprised of five chapters and begins with an overview of the fundamentals of holography, with particular reference to spatial and temporal coherence, diffraction at finite and infinite distances, and filtering of spatial frequencies. The reader is then introduced to the principles and applications of holography, focusing on the geometric optics and aberrations of holograms as well as interferometry and microscopy. The following chapters explore how images are produced and reconstructed using a hologram and explain how to detect the differences between two images. Three main types of synthetic holograms are also considered: binary holograms, holograms with several intensity levels, and the holograms called kinoforms. The last chapter is devoted to optical filtering and pattern recognition.

This monograph will be of value to physicists and researchers as well as to those interested in how holography works.

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