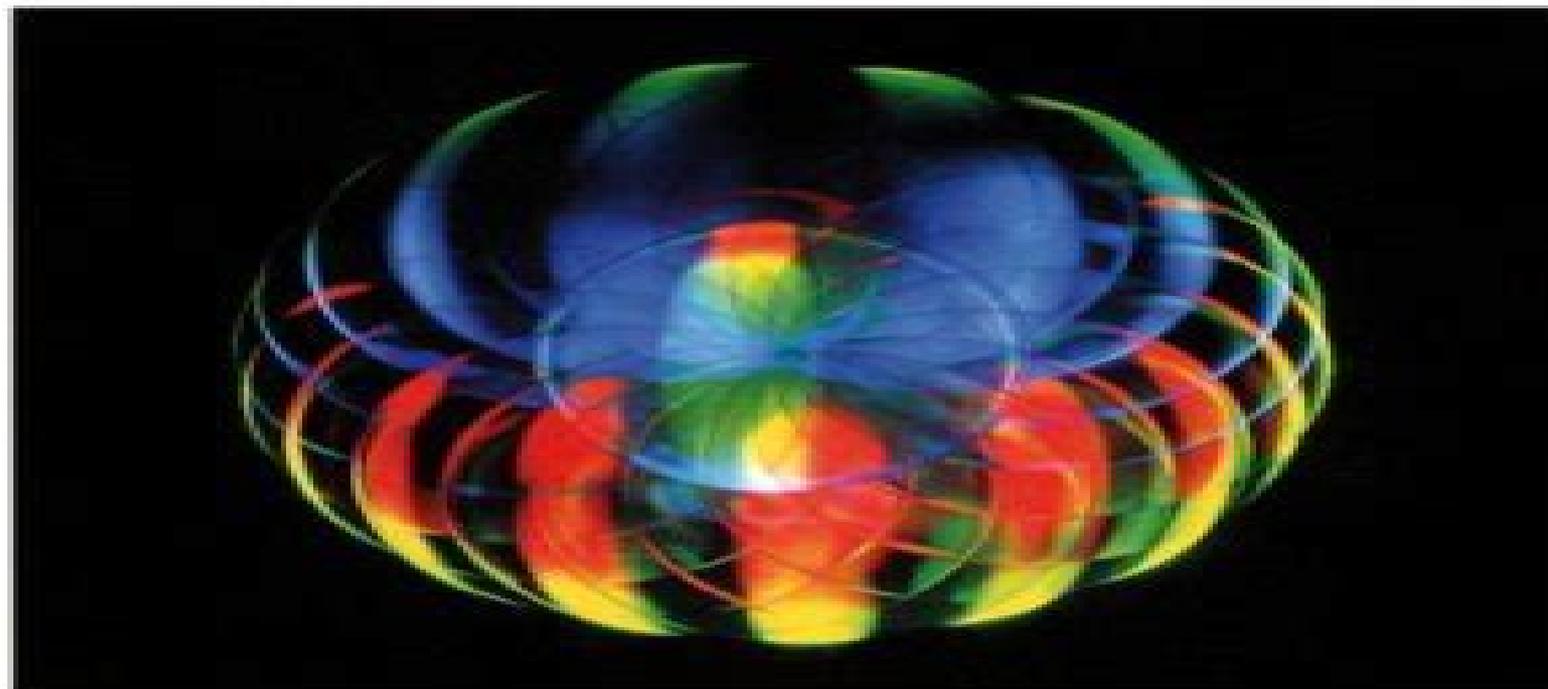


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Holography

A Practical Approach



Holography A Practical Approach

Story



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Karlinsky,1997 *Selected Papers on Holographic Recording Materials* Hans I. Bjelkhagen,1996 This text presents a collection of papers on holographic recording materials It covers topics such as film grain noise on wavefront reconstruction imaging production of blazed holograms reversal bleaching for low flare light on holograms and red sensitivity of dichromated gelatin films **Special Nondestructive Testing Methods** Roderick K. Stanley,Patrick O. Moore,Paul McIntire,1995

The Hologram Martin J. Richardson,John D. Wiltshire,2017-11-13 The practical and comprehensive guide to the creation and application of holograms Written by Martin Richardson an acclaimed leader and pioneer in the field and John Wiltshire The Hologram Principles and Techniques is an important book that explores the various types of hologram in their multiple forms and explains how to create and apply the technology The authors offer an insightful overview of the currently available recording materials chemical formulas and laser technology that includes the history of phase imaging and laser science Accessible and comprehensive the text contains a step by step guide to the production of holograms In addition The Hologram outlines the most common problems encountered in producing satisfactory images in the laboratory as well as dealing with the wide range of optical and chemical techniques used in commercial holography The Hologram is a well designed instructive tool involving three distinct disciplines physics chemistry and graphic arts This vital resource offers a guide to the development and understanding of the recording of materials optics and processing chemistry in holography and Discusses the pros and cons of the currently available recording materials Provides tutorials on the types of lasers required and optical systems as well as diffraction theory and wave front reconstruction Details the chemical formulations for processing techniques Researchers and technicians working in academia and those employed in commercial laboratories on the production of holograms as well as students of the sciences will find The Hologram to be a comprehensive and effective resource

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involved in volume holography with real materials Underlying theory is covered thoroughly and all experimental aspects are discussed including the selection of equipment suitable materials recording processing and testing of holograms Many results are described and a wide range of applications are reviewed The work reflects a thorough survey of the literature including hard to find Soviet research Anyone interested in making or understanding holograms will find it a valuable source of information *Metals Handbook: Nondestructive inspection and quality control*, 1961 The Microscope, 1975 Vol 3 adds section The Entomological monthly **Holographic Imaging** Stephen A. Benton, V. Michael Bove, Jr., 2008-04-30 The only all inclusive treatment of holography from fundamental principles to the most advanced concepts While several existing texts cover different aspects of the field of holography none provides a complete up to date and accessible view of its popular scientific and engineering aspects Now from an author team that includes one of the world's pioneers in the field Holographic Imaging fills this need with a single comprehensive text that covers the subject from traditional holography to the cutting edge development of the world's most advanced three dimensional holographic images holographic printing and holographic video Written in an engaging and easy to follow style Holographic Imaging promotes a hands on approach to making holograms and provides readers with a working understanding of how and why they work Following a brief introduction to the fundamentals of light and diffraction coverage includes the diffraction efficiency of gratings platonic holography a ray tracing analysis of holography holographic lenses and in line Gabor holography off axis Leith Upatnieks holography non laser illumination of holograms phase conjunction and real image projection full aperture transfer holography white light transmission rainbow holography practical issues in rainbow holography in line Denisyuk reflection holography off axis reflection holography edge lit holography computational display holography holographic printing and holographic television Helpful diagrams and equations that summarize the mathematical and physical principles for each technique discussed make this an approachable resource for readers from a variety of backgrounds including undergraduate and postgraduate students with an interest in optics optoelectronics and information display as well as researchers scientists engineers and technology savvy artists **Book Review Index Cumulation, 1989** Neil E. Walker, Beverly Baer, 1990-04 The Index provides a broad coverage and access to book reviews in the general social sciences humanities sciences and fine arts as well as general interest magazines and includes journals from Great Britain Canada Switzerland Israel and Australia In addition it indexes several journals that while published in the US concentrate on reviewing foreign published or foreign language books These include Hispania French Review German Quarterly and World Literature Today D M I C Report Defense Metals Information Center, 1968

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