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It guides students from simple optics to advanced topics in holography, following a practical approach using real-world materials. This proven university textbook contains exercises plus solutions as well as instructions for more than 20 experiments.

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Professor Ackermann taught and researched at laboratories and universities in Rio de Janeiro, Montevideo, and New York, and is still active working in holography. He is member of various societies, amongst others of the Russian Academy of Sciences.

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Holography: A Practical Approach. Gerhard K. Ackermann and Jürgen Eichler Copyright © 2007 WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim ISBN: 978-3-527-40663-0 4 1 Introduction same brightness but a different shape. For most holograms the color of the objects is not important, so the first chapters only deal with light waves of one wavelength.

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From fundamentals to advanced experiments and applications, this book explains how holography works. It guides students from simple optics to advanced topics in holography, following a practical approach using real-world materials. This proven university textbook contains exercises plus solutions as well as instructions for more than 20 experiments.

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It guides students from simple optics to advanced topics in holography, following a practical approach using real-world materials. This proven university textbook contains exercises plus solutions as well as instructions for more than 20 experiments. 1 Introduction

From fundamentals to advanced experiments and applications, this book explains how holography works. It guides students from simple optics to advanced topics in holography, following a practical approach using real-world materials. This proven university textbook contains exercises plus solutions as well as instructions for more than 20 experiments.

Over the course of its 60-year history, holography has enabled new insights into the nature of light and has contributed to innovative applications, including many unrelated to optics. Introduction to Holography explains how to use holographic techniques to solve specific problems in a variety of fields. The text focuses on the state of development of existing and emerging holographic applications. Numerical problems are provided at the end of each chapter. After a review of essential optics, the book presents basic holographic principles. It introduces the theory of thick holograms, along with a less demanding and more insightful path to important results based on the work of Jacques Ludman. Examining the use of holography in practice, the author then describes the conditions for successful holography in the laboratory, including various lasers commonly used for holography. He also discusses recording materials and their key holographic characteristics. The final portion of the book deals with applications of holography, including imaging, holographic interferometry, holographic optical elements, and data storage. The text also explores digital and computer-generated holography, light-in-flight and first-arriving light techniques and their applications, polarization holography, and holography for sensing applications. Since its invention in 1948, holography has evolved into a mature technology with a wide range of applications. This practical guide to the field offers a comprehensive survey of contemporary holographic techniques and applications.

Holography has recently become a field of much interest because of the many new applications implemented by various holographic techniques. This book is a collection of 22 excellent chapters written by various experts, and it

covers various aspects of holography. The chapters of the book are organized in six sections, starting with theory, continuing with materials, techniques, applications as well as digital algorithms, and finally ending with non-optical holograms. The book contains recent outputs from researches belonging to different research groups worldwide, providing a rich diversity of approaches to the topic of holography.

Revised to reflect technological advances and new applications, Practical Holography, Third Edition is a classic, comprehensive text suitable for anyone involved in holography, from the interested amateur to the practicing research scientist. At its most basic level, the book introduces the principles behind holography and takes the reader on a ste

Transparent in the visible range, phase objects can be studied in the optical range using holographic interferometry. Typically, the holograms are recorded on high-resolving-power holographic photo materials, but a lower spatial resolution is sufficient for successful research in many scientific applications. Holographic Interferometry: A Mach-Zehnder Approach offers practical guidance to research scientists and engineers using Mach-Zehnder holographic interferometry methods to study phase objects in the laboratory. The Mach-Zehnder approach allows the use of standard photographic film and electronic CCD/CMOS sensors with low resolving power, making it a simpler and more affordable option for testing many types of phase objects. This book demonstrates how to use standard photographic film for the optical recording and reconstruction of Mach-Zehnder holograms. It also illustrates techniques for using CCD/CMOS cameras to digitally record Mach-Zehnder holograms/interferograms of transparent objects. Bringing together original research and information scattered throughout existing literature, this book focuses on the holographic reference beam and shearing interferometry methods. In particular, it looks at how these methods and optical schemes can be directly applied to testing aerodynamic flows, as well as to plasmas, shocks, and waves in noncoherent laser-matter interactions. Numerous reconstructed and classic interferograms, deflectograms, and Schlierengrams illustrate the material, helping readers develop and design their own optimal optical scheme and choose applicable details to apply the approach. Describing methods in a mathematically simple and accessible way, this book is also suitable for graduate students in the fields of aerospace engineering and optics, as well as those in laser, thermal, and plasma physics.

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Recommended by "Scientific American, Booklist (American Library Association), Library Journal, New Scientist" and "Home Electronics & Entertainment," this practical manual emphasizes a simple and easy method of creating three-dimensional laser photographs. It includes step-by-step instructions and identifies elementary equipment and supplies. (Graphic Arts)

Clear, thorough account, without complicated mathematics, explains geometric and zone plate holography and the different types of holograms, along with step-by-step instructions for making holograms. 116 illustrations.

This highly practical and self-contained guidebook explains the principles and major applications of digital hologram recording and numerical reconstruction (Digital Holography). A special chapter is designated to digital holographic interferometry with applications in deformation and shape measurement and refractive index determination. Applications in imaging and microscopy are also described. Special techniques such as digital light-in-flight holography, holographic endoscopy, information encrypting, comparative holography, and related techniques of speckle metrology are also treated

Ultra-high resolution holograms are now finding commercial and industrial applications in such areas as holographic maps, 3D medical imaging, and consumer devices. Ultra-Realistic Imaging: Advanced Techniques in Analogue and Digital Colour Holography brings together a comprehensive discussion of key methods that enable holography to be used as a technique of ultra-realistic imaging. After a historical review of progress in holography, the book: Discusses CW recording lasers, pulsed holography lasers, and reviews optical designs for many of the principal laser types with emphasis on attaining the parameters necessary for digital and analogue holography Gives a full review of current photosensitive materials for colour holography Covers modern methods of analogue holography and digital holographic printing Introduces mathematical and geometrical notation for horizontal parallax-only holograms and practical computational algorithms for the full-parallax case Reviews systems and the image processing algorithms required to convert the raw image data to the format required by digital printers Develops the physical theory of the holographic grating and the hologram Provides an up-to-date review of illumination sources, including LED and laser diode sources Written by leaders in dynamic holography, this handbook provides complete coverage of real-time colour holographic processes, including applications. The book covers not only the optics and theory behind such holographic systems, but also laser technologies, recording devices, data acquisition and processing techniques, materials for reproduction, and current and developing applications.

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