



FOURTH EDITION

Practical Holography

Graham Saxby
Stanislovas Zacharovas



CRC Press
Taylor & Francis Group

Practical Holography

Shasha Hu



Practical Holography:

Practical Holography Graham Saxby, 2003-11-17 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 step by step journey through the subject *Practical Holography, Fourth Edition* Graham Saxby, Stanislovas Zacharovas, 2015-08-31 Continuing in the steps of its predecessors the fourth edition of Practical Holography provides the most comprehensive and up to date resource available Focused on practical techniques in holography at all levels it avoids any unnecessary mathematical theory Features of the Fourth Edition Highlights new information on color holograms sensitive materials and state of the art processing techniques Includes new chapters and revisions integrating information on digital holography Adds a new appendix on the methods of non holographic 3D imaging Restores and updates the glossary of terms Outlines a timeline for holography from the beginnings of understanding the wave model for light up to the present day After nearly 12 years since the previous edition this book is a vital manual and reference for holography professionals and enthusiasts It is designed for the scientist technologist artist and serious hobbyist alike covering every aspect of the field from basic set up to use of available instruments **Holography** Gerhard K. Ackermann, Jürgen Eichler, 2007-10-01 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 *Guide to Practical Holography* Chris Outwater, Eric van Hamersveld, 1974 **Practical Holography**, 1994 *Manual of Practical Holography* Graham Saxby, 1991 **Introduction to Holography** Vincent Toal, 2022-12-13 This fully updated second edition of Introduction to Holography provides a theoretical background in optics and holography with a comprehensive survey of practical applications It is intended for the non specialist with an interest in using holographic methods in research and engineering The text assumes some knowledge of electromagnetism although this is not essential for an understanding of optics which is covered in the first two chapters A descriptive approach to the history and principles of holography is followed by a chapter on volume holography Essential practical requirements for successful holographic recording are explained in detail Recording materials are considered with detailed discussions of those in common use Properties peculiar to holographically reconstructed images are emphasised as well as applications for which holography is particularly suitable Mathematical tools are introduced as and when required throughout the text with important results derived in detail In this new edition topics such as photopolymers dynamic holographic displays holographic optical elements sensors and digital holography are covered in greater depth New topics have been added including UV and infrared holography holographic authentication and encryption as well as particle beam X ray and acoustic holography Numerical problems are provided at

the end of each chapter This book is suitable for undergraduate courses and will be an important resource for those teaching optics and holography It provides scientists and engineers with knowledge of a wide range of holographic applications in research and industry as well as an understanding of holography's potential for future use

Practical Holography, 4th Edition CRC Press, Graham Saxby, Stanislovas Zacharovas, 2015 Continuing in the steps of its predecessors the fourth edition of Practical Holography provides the most comprehensive and up to date resource available Focused on practical techniques in holography at all levels it avoids any unnecessary mathematical theory Features of the Fourth Edition Highlights new information on color holograms sensitive materials and state of the art processing techniques Includes new chapters and revisions integrating information on digital holography Adds a new appendix on the methods of non holographic 3D imaging Restores and updates the glossary of terms Outlines a timeline for holography from the beginnings of understanding the wave model for light up to the present day After nearly 12 years since the previous edition this book is a vital manual and reference for holography professionals and enthusiasts It is designed for the scientist technologist artist and serious hobbyist alike covering every aspect of the field from basic set up to use of available instruments

Practical Holography XVIII: Materials and Applications Tung H. Jeong, Hans I. Bjelkhagen, 2004 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature

Introduction to Computer Holography Kyoji Matsushima, 2020-03-23 This book covers basic to expert level applications in computer holography a strong candidate for the ultimate 3D display technology The computer holography developed in the course of the past decade represents the basis of wave optics Accordingly the book presents the basic theory of wave optics and practical techniques for handling wave fields by means of the fast Fourier transform Numerical techniques based on polygons as well as mask based techniques are also presented for calculating the optical fields of virtual 3D models with occlusion processing The book subsequently describes simulation techniques for very large scale optical fields and addresses the basics and concrete applications of simulation offering a valuable resource for readers who need to employ it in the context of developing optical devices To aid in comprehension the main content is complemented by numerous examples of optical fields and photographs of reconstructed 3D images

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

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Practical Holography XXII, 2008 Practical Holography II Tung H. Jeong, 1987 **Practical Holography III** Stephen A. Benton, 1989 The Science of Imaging Graham Saxby, 2016-04-19 Edited and expanded to keep pace with the digital revolution the new edition of this highly popular and critically acclaimed work provides a comprehensive exploration of imaging science Brilliantly written and extensively illustrated The Science of Imaging An Introduction Second Edition covers the fundamental laws of physics as well as the cut Practical Holography XI and Holographic Materials III Stephen A. Benton, T. John Trout, 1997 **Cameras and Display Systems Towards Photorealistic 3D Holography** Jin Li, Jintao Hong, Yi Zhang, Xiaoxun Li, Zilong Liu, Yanyan Liu, Daping Chu, 2023-11-26 This book presents recent advances in three dimensional 3D imaging and display frameworks encompassing three categories of 3D imaging and display technologies The first category is nonphotorealistic 3D approaches based on conventional optical cameras to implement 3D stereoscopic observation of a scene In the context of nonphotorealistic 3D imaging and reconstruction systems the authors introduce general principles and also demonstrate camera calibration for 3D imaging smart cameras and full link imaging methods using the optical modulation transfer function to improve imaging quality in conventional cameras The second category is based on light ray light field technology to achieve photorealistic 3D imaging and displays In the context of light ray light field systems two approaches capable of light ray light field 3D imaging by utilizing a camera array or a lens array are demonstrated Accordingly light ray light field display approaches comprising head mounted displays and integral displays are also introduced The third category is also photorealistic 3D imaging and display technology which is based on holography i e diffraction or wavefront light field In the corresponding holographic displays the authors introduce 3D holographic displays from three elements algorithms devices and systems involving fast hologram generation algorithms wide viewing angle display systems and metasurface holography etc Including an investigative roadmap for future progress in optical imaging and 3D display systems this book is essential reading for

scientists and engineers in academia and industry who are interested in next generation imaging and display concepts for 3D visual sensing systems

Scientific Photography and Applied Imaging Sidney Ray, 1999-08-02 WINNER OF THE 2001 KRASZNA KRAUSZ PHOTOGRAPHY BOOK AWARD Technical Photography category The only definitive book to fully encompass the use of photography and imaging as tools in science technology and medicine It describes in one single volume the basic theory techniques materials special equipment and applications for a wide variety of uses of photography including close up photography and photomacrography to spectral recording surveillance systems radiography and micro imaging This extensively illustrated photography bible contains all the information you need whether you are a scientist wishing to use photography for a specialist application a professional needing to extend technical expertise or a student wanting to broaden your knowledge of the applications of photography The contents are arranged in three sections General Section detailing the elements of the image capture process Major Applications describing the major applications of imaging Specialist Applications presenting an eclectic selection of more specialised but increasingly important applications Each subject is introduced with an outline of its development and contemporary importance followed by explanations of essential theory and an overview of techniques and equipment Mathematics is only used where necessary Numerous applications and case studies are described Comprehensive bibliographies and references are provided for further study

Holographic Visions Sean Johnston, 2006-04-06 This is a history of how the new science of holography developed intellectually socially and culturally Based on interviews with pioneer holographers and archival research it shows how science technology art and wider culture are entwined in the modern world

Experimental Mechanics Emmanuel E. Gdoutos, 2021-11-15 The book presents in a clear simple straightforward novel and unified manner the most used methods of experimental mechanics of solids for the determination of displacements strains and stresses Emphasis is given on the principles of operation of the various methods not in their applications to engineering problems The book is divided into sixteen chapters which include strain gages basic optics geometric and interferometric moir optical methods photoelasticity interferometry holography caustics speckle methods digital image correlation thermoelastic stress analysis indentation optical fibers nondestructive testing and residual stresses The book will be used not only as a learning tool but as a basis on which the researcher the engineer the experimentalist the student can develop their new own ideas to promote research in experimental mechanics of solids

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