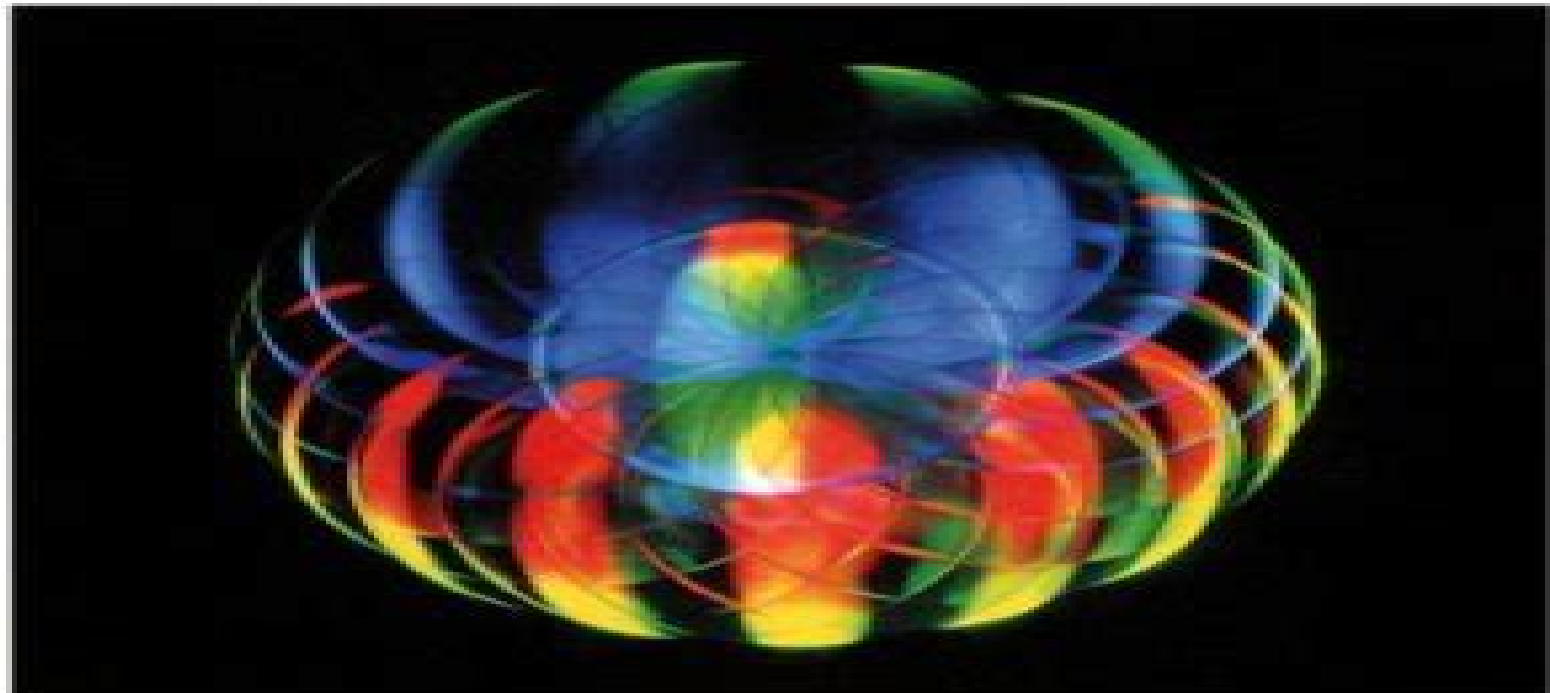


Gerhard K. Ackermann
Jürgen Eichler

Holography

A Practical Approach



Holography A Practical Approach

Annelies Wilder-Smith



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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

Holography (Misc. IF), 1997 *Optical Imaging and Metrology* Wolfgang Osten, Nadya Reingand, 2012-09-10 A comprehensive review of the state of the art and advances in the field while also outlining the future potential and development trends of optical imaging and optical metrology an area of fast growth with numerous applications in nanotechnology and nanophysics Written by the world s leading experts in the field it fills the gap in the current literature by bridging the fields of optical imaging and metrology and is the only up to date resource in terms of fundamental knowledge basic concepts methodologies applications and development trends

Guide to Practical Holography Chris Outwater, Eric van Hamersveld, 1974 **21st Century Nanoscience - A Handbook** Klaus D. Sattler, 2020-04-02 This up to date reference is the most comprehensive summary of the field of nanoscience and its applications It begins with fundamental properties at the nanoscale and then goes well beyond into the practical aspects of the design synthesis and use of nanomaterials in various industries It emphasizes the vast strides made in the field over the past decade the chapters focus on new promising directions as well as emerging theoretical and experimental methods The contents incorporate

experimental data and graphs where appropriate as well as supporting tables and figures with a tutorial approach

Holography Manual P. G. Lingenfelder, 1969 Holography first attracted widespread interest in this decade with the application by Leith and Upatnieks of the laser as the source of coherent light Literature on the subject trends to be general and theoretical This document is a compilation of experimental techniques commonly used in the construction of holograms including refinements developed at NELC It supplies the needed practical approach to basic holography and includes a description of the basic holographic laboratory and its equipment Author *High-Pressure Shock Compression of Solids VIII* L.C. Chhabildas, Lee Davison, Y. Horie, 2006-03-30 Research in the field of shock physics and ballistic impact has always been intimately tied to progress in development of facilities for accelerating projectiles to high velocity and instrumentation for recording impact phenomena The chapters of this book written by leading US and European experts cover a broad range of topics and address researchers concerned with questions of material behaviour under impulsive loading and the equations of state of matter as well as the design of suitable instrumentation such as gas guns and high speed diagnostics Applications include high speed impact dynamics the inner composition of planets syntheses of new materials and materials processing Among the more technologically oriented applications treated is the testing of the flight characteristics of aeroballistic models and the assessment of impacts in the aerospace industry *21st Century Nanoscience* Klaus D. Sattler, 2022-01-18 This 21st Century Nanoscience Handbook will be the most comprehensive up to date large reference work for the field of nanoscience Handbook of Nanophysics by the same editor published in the fall of 2010 was embraced as the first comprehensive reference to consider both fundamental and applied aspects of nanophysics This follow up project has been conceived as a necessary expansion and full update that considers the significant advances made in the field since 2010 It goes well beyond the physics as warranted by recent developments in the field Key Features Provides the most comprehensive up to date large reference work for the field Chapters written by international experts in the field Emphasises presentation and real results and applications This handbook distinguishes itself from other works by its breadth of coverage readability and timely topics The intended readership is very broad from students and instructors to engineers physicists chemists biologists biomedical researchers industry professionals governmental scientists and others whose work is impacted by nanotechnology It will be an indispensable resource in academic government and industry libraries worldwide The fields impacted by nanoscience extend from materials science and engineering to biotechnology biomedical engineering medicine electrical engineering pharmaceutical science computer technology aerospace engineering mechanical engineering food science and beyond **Holography**, 1970 *Summary of the Sixteenth Refractory Composites Working Group Meeting* K. R Hanby, D. J. Maykuth, 1969 **New Developments in Lasers and Electro-optics Research** William T. Arkin, 2007 It is expected that ongoing advances in optics will revolutionise the 21st century as they began doing in the last quarter of the 20th Such fields as communications materials science computing and medicine are leaping forward based on

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Special Nondestructive Testing Methods Roderick K. Stanley, Patrick O. Moore, Paul McIntire, 1995

The Photographic Journal, 1988 Vols for 1853 include the transactions of the Royal Photographic Society of Great Britain

The New Communications Technologies Michael M. Mirabito, Barbara L. Morgenstern, 2004 A complete explanation of today's communication technologies and their impact

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*

Magill's Survey of Science Frank Northen Magill, 1992

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