

Applications of Holography

- Design of containers to hold nuclear materials
- Credit cards carry monetary value
- Supermarket scanners
- Optical Computers
- Improve design of aircraft wings and turbine blades
- Used in aircraft "heads-up display"
- Art
- Archival Recording of fragile museum artifacts

Basics Of Holography Basics Of Holography

Armin Grasnick



Basics Of Holography Basics Of Holography:

Basics of Holography P. Hariharan, 2002-03-14 An excellent introduction to holography for students and researchers in science and engineering

Holography Emilia Mihaylova, 2013-05-29 Holography Basic Principles and Contemporary Applications is a collection of fifteen chapters describing the basic principles of holography and some recent innovative developments in the field The book is divided into three sections The first Understanding Holography presents the principles of hologram recording illustrated with practical examples A comprehensive review of diffraction in volume gratings and holograms is also presented The second section Contemporary Holographic Applications is concerned with advanced applications of holography including sensors holographic gratings white light viewable holographic stereograms The third section of the book Digital Holography is devoted to digital hologram coding and digital holographic microscopy

Basics of Holography P. Hariharan, 2002-03-14 Basics of Holography is a general introduction to the subject written by a leading worker in the field It begins with the theory of holographic imaging the characteristics of the reconstructed image and the various types of holograms Practical aspects of holography are then described including light sources the characteristics of recording media and recording materials as well as methods for producing different types of holograms and computer generated holograms Finally important applications of holography are discussed such as high resolution imaging holographic optical elements information processing and holographic interferometry

Basics of Holography P. Hariharan, 2014-05-14 An excellent introduction to holography for students and researchers in science and engineering

Digital Holography Pascal Picart, Jun-chang Li, 2013-01-24 This book presents a substantial description of the principles and applications of digital holography The first part of the book deals with mathematical basics and the linear filtering theory necessary to approach the topic The next part describes the fundamentals of diffraction theory and exhaustively details the numerical computation of diffracted fields using FFT algorithms A thorough presentation of the principles of holography and digital holography including digital color holography is proposed in the third part A special section is devoted to the algorithms and methods for the numerical reconstruction of holograms There is also a chapter devoted to digital holographic interferometry with applications in holographic microscopy quantitative phase contrast imaging multidimensional deformation investigations surface shape measurements fluid mechanics refractive index investigations synthetic aperture imaging and information encrypting Keys so as to understand the differences between digital holography and speckle interferometry and examples of software for hologram reconstructions are also treated in brief

Holography Gerhard K. Ackermann, Jürgen Eichler, 2008-07-11 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

Holography - Basic Principles and Contemporary Applications, 2013

Computer Holography Tomoyoshi

Shimobaba, Tomoyoshi Ito, 2019-01-30 This book describes algorithms and hardware implementations of computer holography especially in terms of fast calculation It summarizes the basics of holography and computer holography and describes how conventional diffraction calculations play a central role Numerical implementations by actual codes will also be discussed This book will explain new fast diffraction calculations such as scaled scalar diffraction Computer Holography will also explain acceleration algorithms for computer generated hologram CGH generation and digital holography with 3D objects composed of point clouds using look up table LUT based algorithms and a wave front recording plane 3D objects composed of polygons using tilted plane diffraction expressed by multi view images and RGB D images will be explained in this book Digital holography including inline off axis Gabor digital holography and phase shift digital holography will also be explored This book introduces applications of computer holography including phase retrieval algorithm holographic memory holographic projection and deep learning in computer holography while explaining hardware implementations for computer holography Recently several parallel processors have been released for example multi core CPU GPU Xeon Phi and FPGA Readers will learn how to apply algorithms to these processors Features Provides an introduction of the basics of holography and computer holography Summarizes the latest advancements in computer generated holograms Showcases the latest researchers of digital holography Discusses fast CGH algorithms and diffraction calculations and their actual codes Includes hardware implementation for computer holography and its actual codes and quasi codes

Basics of Virtual Reality

Armin Grasnick, 2022-01-04 Today the reality we know can be recorded and reproduced true to reality using technical processes Space and time are recreated virtually as a copy in artificial reality However the reproduction of virtual reality is not limited to a mere copy of what exists A visitor to the virtual space does not have to be content with the pixelated image of the old familiar but can encounter unreal phenomena in the illusory world that never existed in real life or are even physically impossible This enables an expansion of the recorded reality and allows the perception of surprisingly new perspectives A perspective denotes the perception of a fact from a certain point of view and corresponds to the way of looking at things But a perspective is also the observation of a scene from a viewing position From different perspectives the illusion of reality arises during the reproduction by observation This vision is not based on imagination or hallucination but is the basic function of virtual reality This book describes the concepts systems and technologies used to create virtual reality from its ancient beginnings to the present and provides a glimpse into a possible future This book is a translation of the original German 1st edition Grundlagen der virtuellen Realit t by Armin Grasnick published by Springer Verlag GmbH Germany part of Springer Nature in 2020 The translation was done with the help of artificial intelligence machine translation by the service DeepL com A subsequent human revision was done primarily in terms of content so that the book will read stylistically differently from a conventional translation Springer Nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors

Fundamentals of Photonics

Bahaa E. A. Saleh, Malvin Carl Teich, 2020-03-04 Fundamentals of Photonics A complete thoroughly updated full color third edition Fundamentals of Photonics Third Edition is a self contained and up to date introductory level textbook that thoroughly surveys this rapidly expanding area of engineering and applied physics Featuring a blend of theory and applications coverage includes detailed accounts of the primary theories of light including ray optics wave optics electromagnetic optics and photon optics as well as the interaction of light and matter Presented at increasing levels of complexity preliminary sections build toward more advanced topics such as Fourier optics and holography photonic crystal optics guided wave and fiber optics LEDs and lasers acousto optic and electro optic devices nonlinear optical devices ultrafast optics optical interconnects and switches and optical fiber communications The third edition features an entirely new chapter on the optics of metals and plasmonic devices Each chapter contains highlighted equations exercises problems summaries and selected reading lists Examples of real systems are included to emphasize the concepts governing applications of current interest Each of the twenty four chapters of the second edition has been thoroughly updated

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