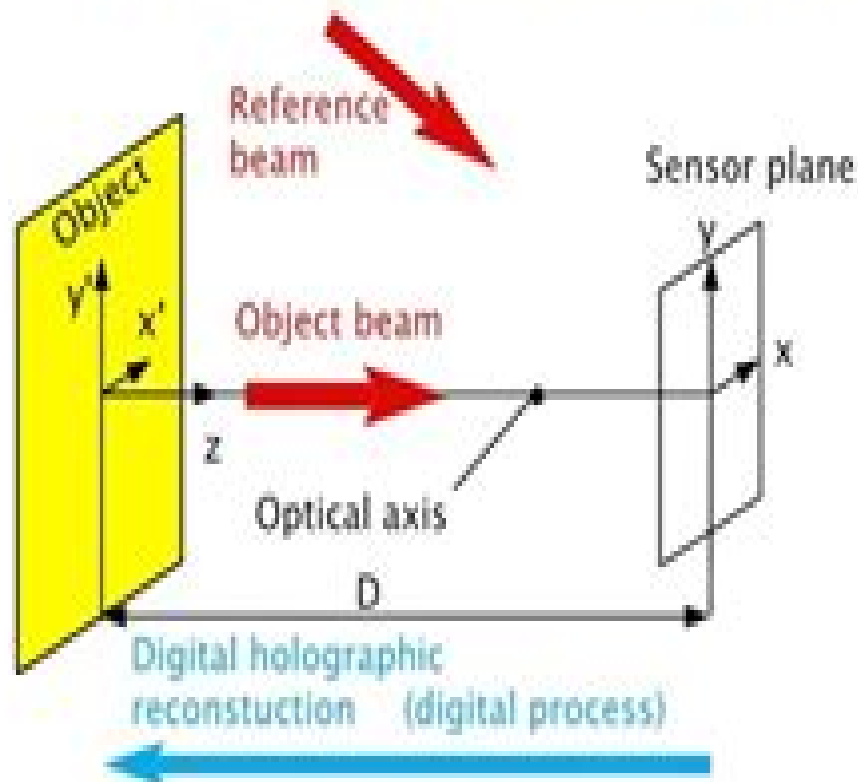
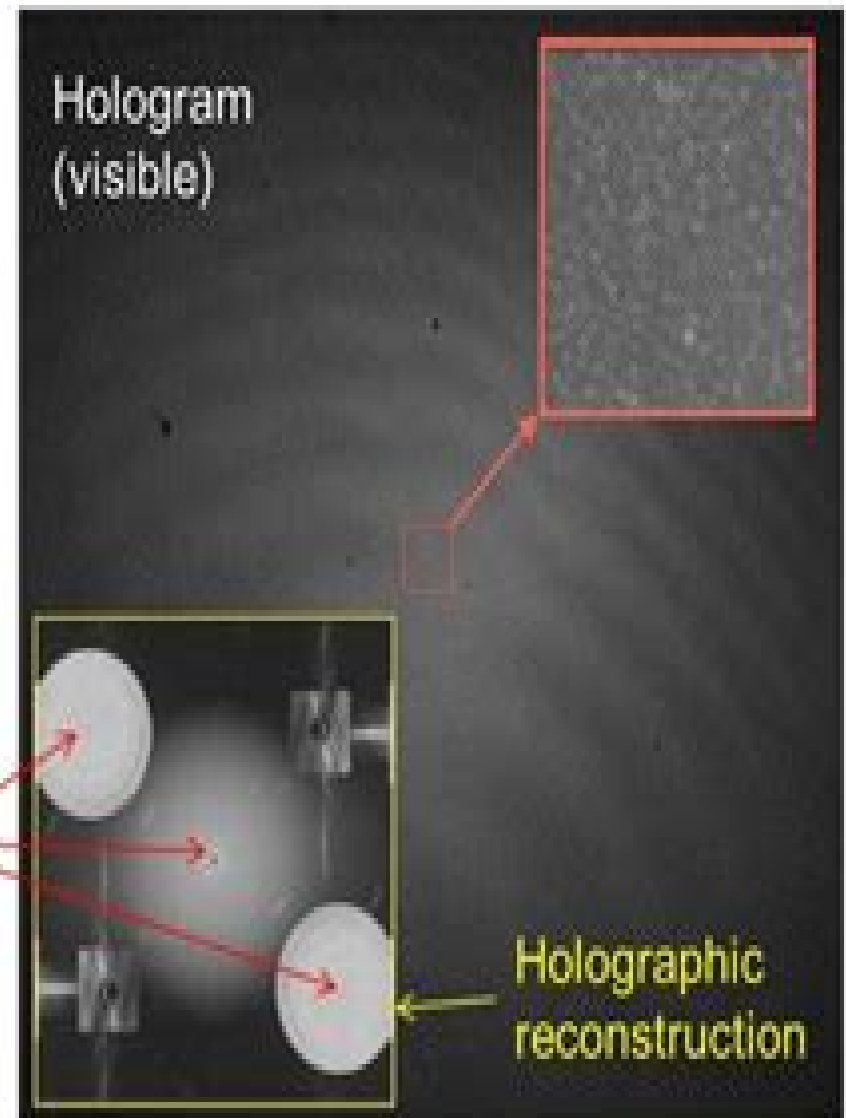


- Recording of a hologram, interference pattern between coherent Object and Reference on a detector.



Diffraction orders 1, 0 and -1

- In-axis, better image quality
- Off-axis, one shot recording



Digital Holography Digital Holography

DP Hallahan



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Digital Holography Ulf Schnars, Werner Jüptner, 2005 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 Digital Holography for MEMS and Microsystem Metrology Anand Asundi, 2011-07-05 Approaching the topic of digital holography from the practical perspective of industrial inspection Digital Holography for MEMS and Microsystem Metrology describes the process of digital holography and its growing applications for MEMS characterization residual stress measurement design and evaluation and device testing and inspection Asundi also provides a thorough theoretical grounding that enables the reader to understand basic concepts and thus identify areas where this technique can be adopted This combination of both practical and theoretical approach will ensure the book s relevance and appeal to both researchers and engineers keen to evaluate the potential of digital holography for integration into their existing machines and processes Addresses particle characterization where digital holography has proven capability for dynamic measurement of particles in 3D for sizing and shape characterization with applications in microfluidics as well as crystallization and aerosol detection studies Discusses digital reflection holography digital transmission holography digital in line holography and digital holographic tomography and applications Covers other applications including micro optical and diffractive optical systems and the testing of these components and bio imaging Digital Holographic Microscopy Myung K. Kim, 2011-08-09 Digital holography is an emerging field of new paradigm in general imaging applications The book presents an introduction to the theoretical and numerical principles and reviews the research and development activities in digital holography with emphasis on the microscopy techniques and applications Topics covered include the general theory of diffraction and holography formations and practical instrumentation and experimentation of digital holography Various numerical techniques are described that give rise to the unique and versatile capabilities of digital holography Representative special techniques and applications of digital holography are discussed The book is intended for researchers interested in developing new techniques and exploring new applications of digital holography **New Techniques in Digital Holography** Pascal Picart, 2015-02-23 A state of the art presentation of important advances in the field of digital holography detailing advances related to fundamentals of digital holography in line holography applied to fluid mechanics digital color holography digital holographic microscopy infrared holography special techniques in full field vibrometry and inverse problems in digital holography Digital Holography and Three-Dimensional Display Ting-Chung Poon, 2006-09-01 Digital or electronic holography and its application to 3 D display is one of the formidable problems of evolving areas of high

technology that has been receiving great attention in recent years Indeed the Holy Grail for 3 D display is the realization of life size interactive 3 D displays Obviously we are not there yet but advances in 3 D display allow us to make important steps towards the Holy Grail The theme of this book is to organize a collection of key chapters that covers digital holography and 3 D display techniques so as to provide the reader with the state of the art developments in these important areas around the world

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 Contents 1 Mathematical Prerequisites 2 The Scalar Theory of Diffraction 3 Calculating Diffraction by Fast Fourier Transform 4 Fundamentals of Holography 5 Digital Off Axis Fresnel Holography 6 Reconstructing Wavefronts Propagated through an Optical System 7 Digital Holographic Interferometry and Its Applications Appendix Examples of Digital Hologram Reconstruction Programs

Introduction to Digital Holography Leonid Yaroslavsky,Jaakko Astola,2009 This eBook is a collection of comprehensive and cutting edge book articles written by leading experts on digital signal and image processing in general and specifically book written by one of pioneers of digital holography one of the foremost branches o

Introduction to Modern Digital Holography Ting-Chung Poon,Jung-Ping Liu,2014-01-23 Building up from the basic principles of optics this straightforward introduction to digital holography aimed at graduate students engineers and researchers describes modern techniques and applications plus all the necessary underlying theory Supporting Matlab code is available for download online and homework problems are accompanied by an instructor solution manual

Digital Holography and Wavefront Sensing Ulf Schnars,Claas Falldorf,John Watson,Werner Jüptner,2014-09-19 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

Methods of Digital Holography

Леонид Пинхусович Ярославский, Николай Степанович Мерзляков, 1980-12 Synthesis of holograms Wavefront analysis and simulation Hardware and software **Digital Holography: Applications and Emerging Technologies** Peter Wai Ming Tsang, Tsing-Chung Poon, Yaping Zhang, Pietro Ferraro, 2023-07-13 With the rapid growth of computing and display technologies digital holography DH has undergone significant advancement in the past two decades Contemporary research works have enabled holography a technology which is originally intended for displaying three dimensional 3 D images to be deployed in numerous scientific engineering and bio medical applications Notably digital holography has been incorporated into quite a number of contemporary applications such as but limited to holographic cryptography optical metrology remote sensing and inspection and more recently quantum computing The success attained with DH so far does not limit its development to its current state of the art but rather research on holography keeps on expanding with new ideas and methods keep coming up in a sustainable manner This Research Topic aims to collect representative works from experts in the field with the aim of providing an insight on the overall picture on digital holography as well as reporting existing methodologies and emerging technologies that are likely to have strong impact on future research directions Participating in the Research Topic either as authors or readers also facilitates establishing a platform for researchers to network and to share their knowledge **Digital Holography and Three-Dimensional Imaging** , 2013 Digital Holography and Digital Image Processing Leonid Yaroslavsky, 2003-11-30 Digital holography and digital image processing are twins born by computer era They share origin theoretical base methods and algorithms The present book describes these common fundamentals principles methods and algorithms including image and hologram digitization data compression digital transforms and efficient computational algorithms statistical and Monte Carlo methods image restoration and enhancement image reconstruction in tomography and digital holography discrete signal resampling and image geometrical transformations accurate measurements and reliable target localization in images recording and reconstruction of computer generated holograms adaptive and nonlinear filters for sensor signal perfecting and image restoration and enhancement The book combines theory heavily illustrated practical methods and efficient computational algorithms and is written for senior level undergraduate and graduate students researchers and engineers in optics photonics opto electronics and electronic engineering *Advanced Holography* Izabela Naydenova, 2011-11-09 Advanced Holography Metrology and Imaging covers digital holographic microscopy and interferometry including interferometry in the infra red Other topics include synthetic imaging the use of reflective spatial light modulators for writing dynamic holograms and image display using holographic screens Holography is discussed as a vehicle for artistic expression and the use of software for the acquisition of skills in optics and holography is also presented Each chapter provides a comprehensive introduction to a specific topic with a survey of developments to date *Digital Holography for MEMS and Microsystem Metrology* Anand Asundi, 2011-08-15 Approaching the topic of digital holography from the practical perspective of industrial inspection Digital Holography for

MEMS and Microsystem Metrology describes the process of digital holography and its growing applications for MEMS characterization residual stress measurement design and evaluation and device testing and inspection Asundi also provides a thorough theoretical grounding that enables the reader to understand basic concepts and thus identify areas where this technique can be adopted This combination of both practical and theoretical approach will ensure the book's relevance and appeal to both researchers and engineers keen to evaluate the potential of digital holography for integration into their existing machines and processes Addresses particle characterization where digital holography has proven capability for dynamic measurement of particles in 3D for sizing and shape characterization with applications in microfluidics as well as crystallization and aerosol detection studies Discusses digital reflection holography digital transmission holography digital in line holography and digital holographic tomography and applications Covers other applications including micro optical and diffractive optical systems and the testing of these components and bio imaging

Digital Holography and Three-Dimensional Imaging 2019 ,2019

Advances in Digital Holography Research Ella Myers (Researcher of light),2015 Holography invented in 1947 by the Hungarian physicist Dennis Gabor is a two step imaging technique that comprises the successful combination of interferences and diffraction This book provides current research advances in digital holography The topics discussed include digital holographic interference microscopy for blood cells fragile and secure watermarking for the authentication of 3D images and digital holography for 3D metrology

Digital Holography and Digital Image Processing Leonid Yaroslavsky,2013-02-02 Digital holography and digital image processing are twins born by computer era They share origin theoretical base methods and algorithms The present book describes these common fundamentals principles methods and algorithms including image and hologram digitization data compression digital transforms and efficient computational algorithms statistical and Monte Carlo methods image restoration and enhancement image reconstruction in tomography and digital holography discrete signal resampling and image geometrical transformations accurate measurements and reliable target localization in images recording and reconstruction of computer generated holograms adaptive and nonlinear filters for sensor signal perfecting and image restoration and enhancement The book combines theory heavily illustrated practical methods and efficient computational algorithms and is written for senior level undergraduate and graduate students researchers and engineers in optics photonics opto electronics and electronic engineering

Ultra-Realistic Imaging Hans Bjelkhagen,David Brotherton-Ratcliffe,2013-05-20 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 **Methods of Digital Holography** ,1980

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