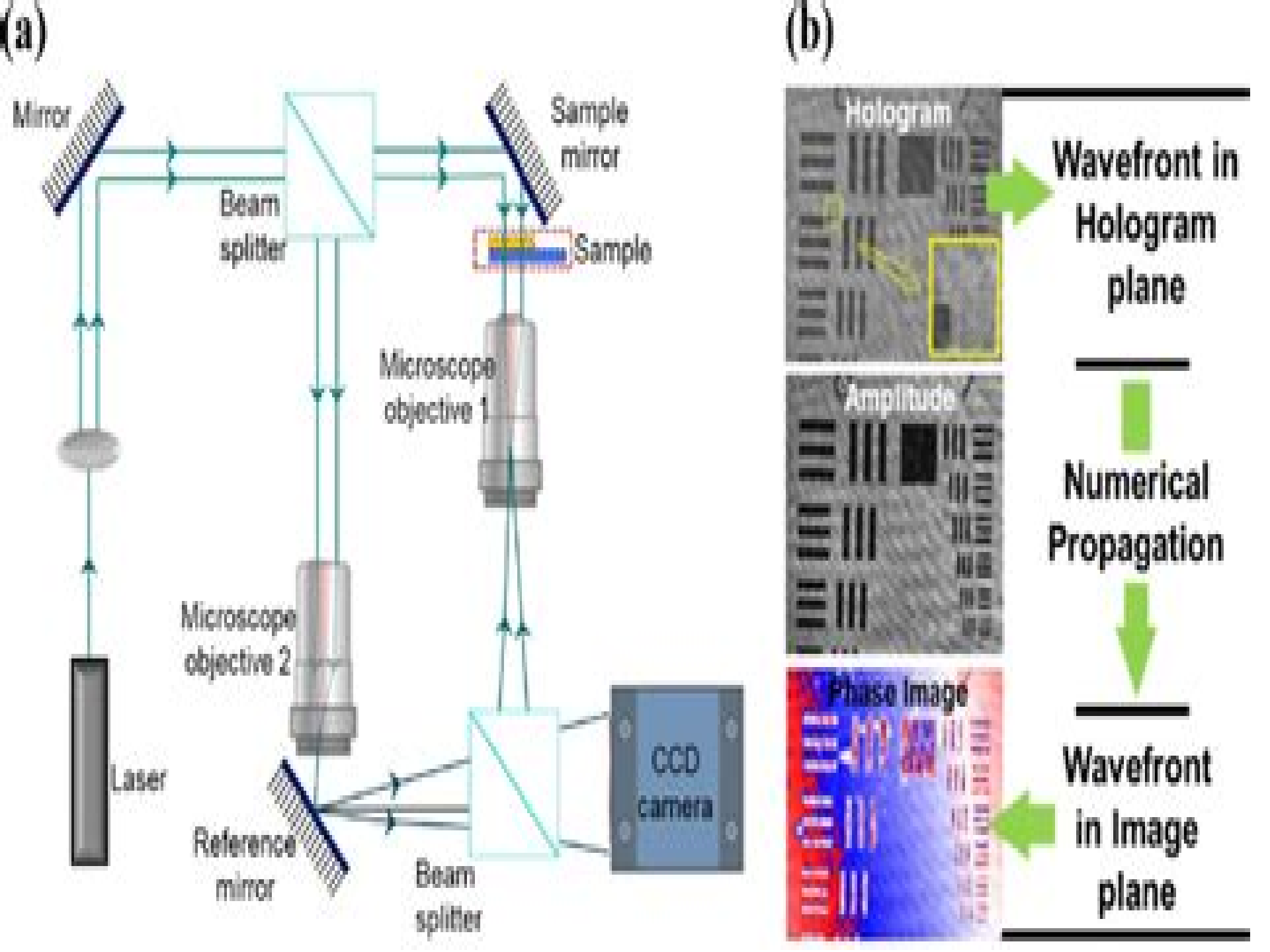
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Digital Holographic Microscopy Digital Holographic Microscopy

Myung K. Kim

Digital Holographic Microscopy Digital Holographic Microscopy:

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 *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,2015-03-16 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 Holographic Methods** Stephan Stuerwald,2018-10-12 This book presents not only the simultaneous combination of optical methods based on holographic principles for marker free imaging real time trapping identification and tracking of micro objects but also the application of substantial low coherent light sources and non diffractive beams It first provides an overview of digital holographic microscopy DHM and holographic optical tweezers as well as non diffracting beam types for minimal invasive real time and marker free imaging as well as manipulation of micro and nano objects It then investigates the design concepts for the optical layout of holographic optical tweezers HOTs and their optimization using optical simulations and experimental methods In a further part the book characterizes the corresponding system modules that allow the addition of HOTs to commercial microscopes with regard to stability and diffraction efficiency Further based on experiments and microfluidic applications it demonstrates the functionality of the combined setup and discusses several types of non diffracting beams and their application in optical manipulation The book shows that holographic optical tweezers including several non diffracting beam types like Mathieu beams combined parabolic and Airy beams not only open up the possibility of generating efficient multiple dynamic traps for micro and nano particles with forces in the pico and nano newton range but also the opportunity to exert optical torque with special beams like Bessel beams which can facilitate the movement and rotation of particles by generating microfluidic flows The last part discusses the potential use of a slightly modified DHM HOT system to explore the functionality of direct laser writing based on a two photon absorption process in a negative photoresist with a continuous wave laser **Digital Holographic Microscopy** Yujuan Cheng,2008 A traditional microscope is not capable of imaging phase object or three dimensional object Computational Microscopy is proposed to address these two limitations In Computational Microscopy the sample is under coherent illumination and the intensities of the diffracted light are recorded by a detector system CCD camera in most cases The recorded information is then numerically processed by computer to retrieve the complex field scattered by the object from which the quantitative properties of the object are reconstructed Three dimensional imaging via Computational Microscopy is performed by illuminating the semi transparent object from multiple directions and solving the inverse scattering problem via techniques of Optical Diffraction Tomography ODT Digital holographic microscopy DHM discussed in this thesis is a synthetic implementation of the Computational Microscopy and employs phase shifting digital holography for phase retrieval Different experimental schemes were tested and three numerical back propagation methods were implemented for back propagating the complex wave from measurement plane to near field The most emphasized part of the thesis is the research in the algorithms for ODT An inverse scattering algorithm based on distorted wave approximation for the geometry of ODT is introduced We implement the algorithm to two Optical Diffraction Tomography configurations free space and cylindrical symmetric background For free space case both near field and far field inverse scattering problems are studied For cylindrical symmetric background inverse scattering based on Distorted Wave Born Approximation and Distorted Wave Rytov

Approximation are discussed and compared via computer simulation In addition an inverse scattering algorithm based on ray tracing is derived based on the similar idea Experimental results are presented in which we have successfully reconstructed transmission functions of 2D semi transparent objects and refractive index profile of a step index optical fiber Image Processing for Digital Holography, Specifically Digital Holographic Microscopy Karen Molony,2010 **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 **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 Spcial techniques such as digital light in flight holography holographic endoscopy information encrypting comparative holography and related techniques of speckle metrology are also treated **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

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