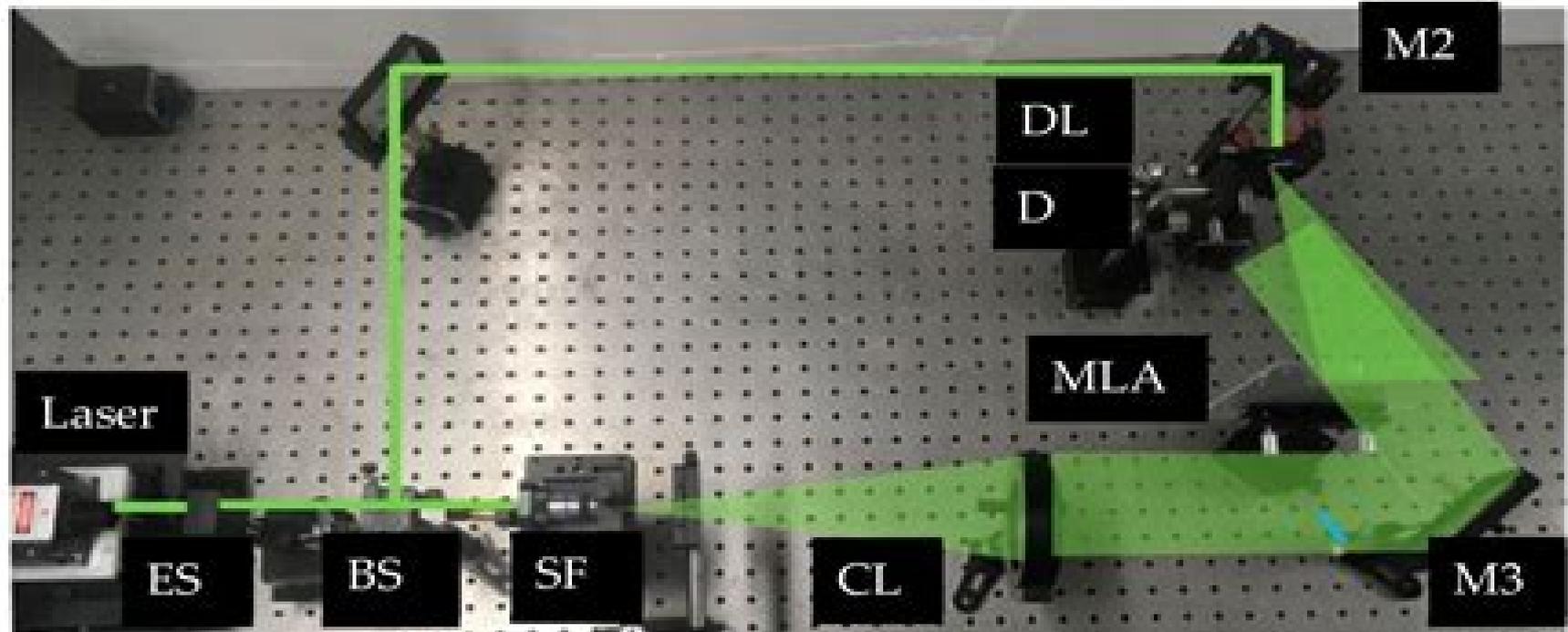


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# Three Dimensional Holographic Imaging

**Barry G. Blundell, Adam J. Schwarz**



### **Three Dimensional Holographic Imaging:**

**Three-Dimensional Holographic Imaging** Chung J. Kuo, Meng Hua Tsai, 2003-03-25 A comprehensive survey of the state of the art in 3 D holographic imaging techniques and applications This book introduces the general concepts of both real time and non real time 3 D holographic imaging techniques for scientific and engineering applications It offers readers a fundamental understanding of the concepts of 3 D holographic imaging as well as cost effective design and implementation World renowned experts in the field provide in depth discussion of the following topics Holograms of real and virtual point trajectories Self stabilized real time holographic recording Principles and applications of optical scanning holography Tangible dynamic holographic images Holographic laser radar Preliminary studies on compression of interference patterns in electronic holography Photoelectronic principles components and applications Design and implementation of computer generated hologram and diffractive optical elements Catastrophe analysis as the basis for visual perception Three Dimensional Holographic Imaging is the most complete survey available of the fundamental topics in the field ideal for electrical engineers optical scientists and advanced CAD CAM systems engineers engaged in the design and construction of advanced imaging systems *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 holographic video Written in an engaging and easy to follow style Holographic Imaging promotes a hands on approach to making holograms and provides readers with a working understanding of how and why they work Following a brief introduction to the fundamentals of light and diffraction coverage includes the diffraction efficiency of gratings platonic holography a ray tracing analysis of holography holographic lenses and in line Gabor holography off axis Leith Upatnieks holography non laser illumination of holograms phase conjunction and real image projection full aperture transfer holography white light transmission rainbow holography practical issues in rainbow holography in line Denisyuk reflection holography off axis reflection holography edge lit holography computational display holography holographic printing and holographic television Helpful diagrams and equations that summarize the mathematical and physical principles for each technique discussed make this an approachable resource for readers from a variety of backgrounds including undergraduate and postgraduate students with an interest in optics optoelectronics and information display as well as researchers scientists engineers and technology savvy artists [Real-Time Three-Dimensional Imaging of Dielectric Bodies Using Microwave/Millimeter Wave Holography](#) Reza K. Amineh, Natalia K. Nikolova, Maryam Ravan, 2019-07-23 A guide to the applications of holographic techniques for

microwave and millimeter wave imaging Real Time Three Dimensional Imaging of Dielectric Bodies Using Microwave Millimeter Wave Holography offers an authoritative guide to the field of microwave holography for the specific application of imaging dielectric bodies The authors noted experts on the topic review the early works in the area of optical and microwave holographic imaging and explore recent advances of the microwave and millimeter wave imaging techniques These techniques are based on the measurement of both magnitude and phase over an aperture and then implementing digital image reconstruction The book presents developments in the microwave holographic techniques for near field imaging applications such as biomedical imaging and non destructive testing of materials The authors also examine novel holographic techniques to gain super resolution or quantitative images The book also includes a discussion of the capabilities and limitations of holographic reconstruction techniques and provides recommendations for overcoming many of the limitations This important book Describes the evolution of wide band microwave holography techniques from synthetic aperture radar principles Explores two major approaches to near field microwave holography Using the incident field and Green s function information and using point spread function of the imaging system Introduces the diffraction limit in the resolution for techniques that are based on the Born approximation and provides techniques to overcome this limit Written for students and research associates in microwave and millimeter wave engineering Real Time Three Dimensional Imaging of Dielectric Bodies Using Microwave Millimeter Wave Holography reviews microwave and millimeter wave imaging techniques based on the holographic principles and provides information on the most current developments 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 Real-Time Three-Dimensional Imaging of Dielectric Bodies Using Microwave/Millimeter Wave Holography Reza K. Amineh,Natalia K. Nikolova,Maryam Ravan,2019-07-19 A guide to the applications of holographic techniques for microwave and millimeter wave imaging Real Time Three Dimensional Imaging of Dielectric Bodies Using Microwave Millimeter Wave Holography offers an authoritative guide to the field of microwave holography for the specific application of imaging dielectric bodies The authors noted experts on the topic review the early works in the area of optical and microwave holographic imaging and explore recent advances of the microwave and millimeter wave imaging techniques These techniques are based on the measurement of both magnitude and phase over an aperture and then implementing digital image reconstruction The book presents developments in the microwave holographic techniques for near field imaging applications such as biomedical imaging and non destructive testing of materials The

authors also examine novel holographic techniques to gain super resolution or quantitative images The book also includes a discussion of the capabilities and limitations of holographic reconstruction techniques and provides recommendations for overcoming many of the limitations This important book Describes the evolution of wide band microwave holography techniques from synthetic aperture radar principles Explores two major approaches to near field microwave holography Using the incident field and Green s function information and using point spread function of the imaging system Introduces the diffraction limit in the resolution for techniques that are based on the Born approximation and provides techniques to overcome this limit Written for students and research associates in microwave and millimeter wave engineering Real Time Three Dimensional Imaging of Dielectric Bodies Using Microwave Millimeter Wave Holography reviews microwave and millimeter wave imaging techniques based on the holographic principles and provides information on the most current developments *Three-Dimensional Imaging Techniques* Takanori Okoshi,2012-12-02 Three Dimensional Imaging Techniques provides an overview of the development and practical applications of three dimensional imaging techniques This text deals with holographic and nonholographic techniques with a focus on efficiency speckle noise resolution white light reconstruction white light recording and color holography This book is comprised of nine chapters wherein Chapter 1 provides a brief history of information media in human society Chapter 2 presents the history of depth perception and the principle of the Wheatstone stereoscope and Chapter 3 examines the construction of human eyes as the most important source of depth perception Chapter 4 focuses on the optimum design of lens sheet pictures whereas Chapters 5 and 6 examine the technical drawbacks that limit the versatility in three dimensional imaging technology The features of holographic techniques such as holographic stereoscreens and computer generated holograms are discussed in Chapters 7 and 8 Finally Chapter 9 discusses the possible classifications based on applications including microscopy television X ray imaging movies and acoustical imaging This book is intended for electronic engineers researchers and readers who are interested in the field of three dimensional imaging **Three-dimensional Imaging** Stephen A. Benton,Society of Photo-optical Instrumentation Engineers,1977 *Three-Dimensional Imaging, Visualization, and Display* Bahram Javidi,Fumio Okano,Jung-Young Son,2010-07-15 Here is an up to date examination of recent developments in 3D imaging as well as coverage of the prospects and challenges facing 3D moving picture systems and devices including binocular multi view holographic and image reproduction techniques *Two and Three Dimensional Extreme Ultraviolet Holographic Imaging with a Nanometer Spatial Resolution* P. W. Wachulak,M. C. Marconi,2011 **Three-dimensional Image Capture and Applications** ,2001 *Three-dimensional Imaging, Optical Metrology, and Inspection* ,1999 **Three-dimensional Imaging, Optical Metrology, and Inspection IV** Kevin G. Harding,1998 Topics in this volume include structured light methods rangefinding methods and micrometrology **Three-dimensional Imaging, Optical Metrology, and Inspection V** Kevin G. Harding,1999 This work presents a series of papers examining various aspects of three dimensional

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