

Hologram Matlab Code

Holographic Imaging Using Aperture Modulation Computational Optical Phase Imaging Introduction to Modern Digital Holography Computer-Generated Phase-Only Holograms for 3D Displays Analog and Digital Holography with MATLAB Practical Holography Holographic Time Gate Investigations and Confocal Techniques National Aeronautics and Space Administration (NASA)/American Society for Engineering Education (ASEE) Summer Faculty Fellowship Program: 1995 Engineering Problem Solving with MATLAB Optical Information Systems Interferometric 3-D Camera for Shape and Deformation Measurements Using Ultra Short Laser Pulses International Aerospace Abstracts The Journal of the Acoustical Society of America Proceedings of the 1997 Noise and Vibration Conference Optical Scanning Holography with MATLAB® Optical Engineering Japanese Journal of Applied Physics Index to IEEE Publications JJAP Proceedings of the ... ASME Design Engineering Technical Conferences Abdallah Hamed Cheng Liu Ting-Chung Poon Peter Wai Ming Tsang Georges T. Nehmetallah Kurt Douglas Mills D. M. Etter Bengt Nilsson Acoustical Society of America Society of Automotive Engineers Ting-Chung Poon Institute of Electrical and Electronics Engineers

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this book highlights the formation of holographic images using modulated apertures across eleven comprehensive chapters it begins with a summary of basic fourier transformations used to compute diffraction patterns of well known objects the fundamentals of holography are outlined followed by an investigation of fourier holographic images obtained using argon plasma this book also explores fourier holographic images using modulated hamming apertures and discusses the use of

scanning holography with linear and quadratic apertures advanced topics include the processing and segmentation of cancerous mammographic images using improved fourier holograms and the detailed study of fourier holographic imaging of modulated apertures the recognition of colored objects and the computation of the point spread function psf using operator algebra in gaussian beam illumination are also covered this book concludes with a discussion on pattern recognition and information processing this book serves as an essential resource for researchers and students interested in the advanced techniques and applications of holographic imaging

in this book computational optical phase imaging techniques are presented along with matlab codes that allow the reader to run their own simulations and gain a thorough understanding of the current state of the art the book focuses on modern applications of computational optical phase imaging in engineering measurements and biomedical imaging additionally it discusses the future of computational optical phase imaging especially in terms of system miniaturization and deep learning based phase retrieval

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

explore core concepts theories and formulations of phase only fresnel holograms which paves the way for 3 d holographic display system

holography is the only truly three dimensional imaging method available and matlab has become the programming language of choice for engineering and physics students whereas most books solely address the theory behind these 3d imaging techniques this monograph concentrates on the exact code needed to perform complex mathematical and physical operations

this volume is the cornerstone tutorial in the matlab curriculum series it introduces general problem solving and design techniques through a five step process using matlab for analysis and graphical display

optical scanning holography osh is an emerging area of interest with many potential novel applications such as 3 d pattern recognition 3 d microscopy 3 d cryptography and 3 d optical remote sensing optical scanning holography with matlab introduces readers to the latest advances of electronic or digital holography and succinctly covers the necessary mathematical background and wave optics that pertain to fourier optics and holography the reader is guided through modeling of the theory and applications utilizing matlab optical scanning holography is explained in a manner that enables readers to begin implementing their own setups for novel osh applications optical scanning holography with matlab consists of tutorials with

numerous matlab examples throughout the text and research material as well as new ideas and insights for graduate students scientists and engineers working in the fields of fourier optics optical scanning imaging and holography

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