

# Hologram Matlab Code

Holographic Imaging Using Aperture Modulation Computational Optical Phase Imaging 7th International Conference on the Development of Biomedical Engineering in Vietnam (BME7) Introduction to Modern Digital Holography Computer-Generated Phase-Only Holograms for 3D Displays Holographic Time Gate Investigations and Confocal Techniques Analog and Digital Holography with MATLAB Practical Holography National Aeronautics and Space Administration (NASA)/American Society for Engineering Education (ASEE) Summer Faculty Fellowship Program: 1995 Japanese Journal of Applied Physics JJAP Engineering Problem Solving with MATLAB Optical Information Systems Optical Pattern Recognition Optics Letters International Aerospace Abstracts The Journal of the Acoustical Society of America Proceedings of the 1997 Noise and Vibration Conference Optical Engineering Proceedings of the ... ASME Design Engineering Technical Conferences Abdallah Hamed Cheng Liu Vo Van Toi Ting-Chung Poon Peter Wai Ming Tsang Kurt Douglas Mills Georges T. Nehmetallah D. M. Etter Acoustical Society of America Society of Automotive 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

this volume presents the proceedings of the 7th international conference on the development of biomedical engineering in vietnam which was held from june 27 29 2018 in ho chi minh city the volume reflects the progress of biomedical engineering and discusses problems and solutions it aims to identify new challenges and shaping future directions for research in biomedical engineering fields including medical instrumentation bioinformatics biomechanics medical imaging drug delivery therapy regenerative medicine and entrepreneurship in medical devices

get up to speed with digital holography with this concise and straightforward introduction to modern techniques and conventions building up from the basic principles of optics this book describes key techniques in digital holography such as phase shifting holography low coherence holography diffraction tomographic holography and optical scanning holography discussing their practical applications and accompanied by all the theory necessary to understand the underlying principles at work a further chapter covers advanced techniques for producing computer generated holograms extensive matlab code is integrated with the text throughout and available for download online illustrating both theoretical results and practical considerations such as aliasing zero padding and sampling accompanied by end of chapter problems and an online solutions manual for instructors this is an indispensable resource for students researchers and engineers in the fields of optical image processing and digital holography

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

publishes papers reporting on research and development in optical science and engineering and the practical applications of known optical science engineering and technology

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