

# Hologram Matlab Code

Introduction to Modern Digital Holography Computer-Generated Phase-Only  
Holograms for 3D Displays Holographic Time Gate Investigations and Confocal  
Techniques Practical Holography Analog and Digital Holography with MATLAB 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 The Journal of the Acoustical Society  
of America International Aerospace Abstracts Proceedings of the 1997 Noise and  
Vibration Conference Optical Engineering Proceedings of the ... ASME Design  
Engineering Technical Conferences Optical Scanning Holography with  
MATLAB® MATLAB® for Photomechanics- A Primer Wave-optical Systems Engineering  
Ting-Chung Poon Peter Wai Ming Tsang Kurt Douglas Mills Georges T. Nehmetallah D.  
M. Etter Acoustical Society of America Society of Automotive Engineers Ting-Chung  
Poon A. Asundi

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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

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

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

the term photomechanics describes a suite of experimental techniques which use optics photo for studying problems in mechanics the field has been in existence for some time but has always lagged behind other experimental and numerical techniques the main reason for this is that the interpretation of data which whilst providing whole field visualization is not in a form readily amenable to the end user digital image processing has become common within the photomechanics community however one approach does not fit all and subtle variations in technique and method have been developed by different groups working on specific applications this primer enables the user to get started with their experimental analysis quickly it is based on the universally popular matlab software which includes dedicated and optimized functions for a variety of image processing tasks these can readily scripted along with the necessary mathematical expressions for particular experimental techniques the book provides an introduction to some of the optical techniques and then introduces matlab routines specific to the image processing in experimental mechanics there are also case studies on particular techniques as part of the book a collection of m files is provided on cd rom which also contains example images and test code this provides a starting point for the user who can then easily add or edit statements or function for their own images matlab is a registered trademark of the mathworks inc for product information visit [mathworks.com](http://mathworks.com) [mathworks.com](http://mathworks.com)

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