

Hologram Matlab Code Pdf Pdf

Computer-Generated Phase-Only Holograms for 3D Displays

2021-01-21 Peter Wai Ming Tsang Explore core concepts, theories and formulations of phase-only Fresnel holograms, which paves the way for 3-D holographic display system.

Optical Tweezers

2015-12-03 Philip H. Jones A comprehensive guide to the theory, practice and applications of optical tweezers, combining state-of-the-art research with a strong pedagogic approach.

Contemporary Optical Image Processing with MATLAB

2001-04-18 T.-C. Poon This book serves two purposes: first to introduce readers to the concepts of geometrical optics, physical optics and techniques of optical imaging and image processing, and secondly to provide them with experience in modeling the theory and applications using the commonly used software tool MATLAB®. A comprehensively revised version of the authors' earlier book Principles of Applied Optics, Contemporary Optical Image Processing with MATLAB brings out the systems aspect of optics. This includes ray optics, Fourier Optics, Gaussian beam propagation, the split-step beam propagation method, holography and complex spatial filtering, ray theory of holograms, optical scanning holography, acousto-optic image processing, edge enhancement and correlation using photorefractive materials, holographic phase distortion correction, to name a few. MATLAB examples are given throughout the text. MATLAB is emphasized since it is now a widely accepted software tool very routinely used in signal processing. A sizeable portion of this book is based on the authors' own in-class presentations, as well as research in the area. Instructive problems and MATLAB assignments are included at the end of each Chapter to enhance even further the value of this book to its readers. MATLAB is a registered trademark of The MathWorks, Inc.

Advanced Digital Imaging Laboratory Using MATLAB®

2014 Leonid P. Yaroslavsky Intended for graduate level students and practitioners in imaging engineering, this book is designed to help readers to master digital imaging on both fundamental theoretical and practical levels. To this end, the book provides a set of exercises in Matlab in all major topics of the subject and supports them by outlining the theoretical foundations, which the exercises are intended to illustrate. The book is based on the courses that have been taught by the author in Tel Aviv University, Israel, and in a number of other universities of Europe and Japan.

Introduction to Modern Digital Holography

2014-01-23 Ting-Chung Poon 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.

7th International Conference on the Development of Biomedical Engineering in Vietnam (BME7)

2019-06-05 Vo Van Toi 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.

Optics

2007-08-08 Karl Dieter Moeller This new edition is intended for a one semester course in optics for juniors and seniors in science and engineering. It uses scripts from Maple, MathCad, Mathematica, and MATLAB to provide a simulated laboratory where students can learn by exploration and discovery instead of passive absorption. The text covers all the standard topics of a traditional optics course. It contains step by step derivations of all basic formulas in geometrical, wave and Fourier optics. The threefold arrangement of text, applications, and files makes the book suitable for "self-learning" by scientists or engineers who would like to refresh their knowledge of optics.

Analog and Digital Holography with MATLAB

2015 Georges T. Nehmetallah 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.

MATLAB® for Photomechanics- A Primer

2002-12-10 A. Asundi 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 <http://www.mathworks.comhttp://www.mathworks.com>

Holographic Entanglement Entropy

2017-05-08 Mukund Rangamani This book provides a comprehensive overview of developments in the field of holographic entanglement entropy. Within the context of the AdS/CFT correspondence, it is shown how quantum entanglement is computed by the area of certain extremal surfaces. The general lessons one can learn from this connection are drawn out for quantum field theories, many-body physics, and quantum gravity. An overview of the necessary background material is provided together with a flavor of the exciting open questions that are currently being discussed. The book is divided into four main parts. In the first part, the concept of entanglement, and methods for computing it, in quantum field theories is reviewed. In the second part, an overview of the AdS/CFT correspondence is given and the holographic entanglement entropy prescription is explained. In the third part, the time-dependence of entanglement entropy in out-of-equilibrium systems, and applications to many body physics are explored using holographic methods. The last part focuses on the connection between entanglement and geometry. Known constraints on the holographic map, as well as, elaboration of entanglement being a fundamental building block of geometry are explained. The book is a useful resource for researchers and graduate students interested in string theory and holography, condensed matter and quantum information, as it tries to connect these different subjects linked by the common theme of quantum entanglement.

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Star Wars that Changed History

It was the year 2023, and the world was on the brink of war. The United States and China, the two superpowers, were locked in a fierce rivalry, competing for resources, influence, and dominance. They had developed advanced weapons, such as lasers, drones, and satellites, that could strike anywhere, anytime. They had also secretly built space stations, that could launch nuclear missiles, that could destroy the planet. They were ready to use them, if necessary. But they were not alone. There was a third force, a hidden force, that had been watching them, waiting for them, preparing for them. They were the aliens, and they had come to stop them. They had come to save the world, or to end it. They had come to start the star wars that changed history.

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