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Linear Canonical Transforms - Theory and ... - Springer

ADVANCED OPTICAL MATERIALS, ... Three dimensional optical manipulation and structural imaging of soft materials by use of laser tweezers and multimodal nonlinear microscopy ... Theory and Experiments, pp. 229-270. O. D. Lavrentovich, P. Pasini, C. Zannoni, and S. Zumer (eds.), (NATO Science Series, Vol. 43, Kluwer Academic Publishers, 2001) ...

Advanced Optical Imaging Theory | SpringerLink

Advanced Optical Imaging Theory (Springer Series in Optical Sciences) [Min Gu] on Amazon.com. *FREE* shipping on qualifying offers. Optical microscopy and associated technologies have advanced rapidly along with laser technology. These techniques have stimulated further development of the optical imaging theory

Publications | Soft Matter Physics Smalyukh Research Group ...

He is the sole author of two standard reference books, Principles of Three-Dimensional Imaging in Confocal Microscopes (World Scientific, 1996), and Advanced Optical Imaging Theory (Springer-Verlag, 2000). He is also the first author of Femtosecond Biophotonics: Core Techniques and Applications,(Cambridge University Press, 2010).

OSA | Deconvolution approach for 3D scanning microscopy ...

Part of the Springer Series in Optical Sciences book series (SSOS, volume 75) In the last chapter, imaging performance in an optical imaging system is analysed by a point spread function for a thin lens, which is the image of a single point object. While this method is easily understood, it sometimes lacks an insight into an imaging process.

Advanced Optical Imaging Theory (Springer Series in ...

Optical Imaging Theory With 93 Figures 1 Springer . Contents 1. INTRODUCTION 1 1.1 Recent Advances of Optical Imaging Theory 1 1.2 Overview of the Book 3 References 5 2. DIFFRACTION THEORY 7 ... 3.3.3 Abbe Imaging Theory 57 3.4 Space-Invariant Property 62 3.5 Incoherent Image Formation 67

Advanced optical imaging theory (eBook, 2000) [WorldCat.org]

This book provides a clear and accessible introduction to the essential mathematical foundations of linear canonical transforms from a signals and systems perspective. Substantial attention is devoted to how these transforms relate to optical systems and wave propagation. There is extensive

Optical Imaging and Microscopy - Techniques and Advanced ...

Optical Imaging and Microscopy. In this part particular attention is paid to optical data storage. The second part is on the use of non-linear optical techniques, including nonlinear optical excitation (total internal reflection fluorescence, second and third harmonic generation and two photon microscopy) and non-linear spectroscopy (CARS).

Imaging with an Ultrashort Pulsed Beam - Springer

This book highlights the rapidly developing field of advanced optical methods for structural and functional brain imaging. As is known, the brain is the most poorly understood organ of a living body. It is indeed the most complex structure in the known universe and, thus, mapping of the brain has become one of the most exciting frontlines of contemporary research.

Advanced Optical Imaging Theory

Imaging with an Ultrashort Pulsed Beam. In Section 5.4, the transmittance of a lens under ultrashort pulsed beam illumination is derived. With this expression, the light distribution in a focal region of a lens is discussed in Section 5.5. Finally, the coherent transfer function and the optical transfer function for a lens are presented in Section 5.6.

Transfer Function Analysis | SpringerLink

Shepard RH, Fernandez-Cull C, Raskar R, Shi B, Barsi C, Zhao H (2014) Optical design and characterization of an advanced computational imaging system. In: SPIE Optical Engineering+ Applications, International Society for Optics and Photonics, pp 92160A-92160A Google Scholar

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Direct measurement of the phase is difficult in the visible regime of the electromagnetic wave. One must employ computational techniques to calculate the phase from the captured intensity. In this paper, we provide a review of our recent work on iterative phase retrieval techniques and their applications in optical imaging.

Advanced Optical Imaging Theory | Min Gu | Springer

Advanced Optical Imaging Theory. Optical microscopy and associated technologies advanced quickly after the introduction of the laser. The techniques have stimulated further development of optical imaging theory, including 3-dimensional microscopy imaging theory in spatial and frequency domains, the theory of imaging with ultrashort-pulse beams...

Advanced Optical Methods for Brain Imaging | SpringerLink

Deconvolution approach for 3D scanning microscopy with helical phase engineering Clemens Roeder, Rainer Heintzmann, Rafael Piestun, and Alexander Jesacher Author Information . Author Affiliations ... M. Gu, Advanced optical imaging theory (Springer Science & Business Media, 1999).

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Optical microscopy and associated technologies advanced quickly after the introduction of the laser. The techniques have stimulated further development of optical imaging theory, including 3-dimensional microscopy imaging theory in spatial and frequency domains, the theory of imaging with ultrashort-pulse beams and aberration theory for high-numerical-aperture objectives.

Advanced Optical Imaging Theory Springer

Comparisons with classical imaging theory are made when the new imaging theory is introduced. The book is intended for senior undergraduate students in courses on optoelectronics, optical engineering, photonics, biophotonics and applied physics, after they have completed modern optics or a similar subject.

Phase problems in optical imaging | SpringerLink

Optical Imaging and Microscopy Techniques and Advanced Systems. Editors ... book. The well-illustrated volume is organized in three parts I found the descriptions of the theory and the details of the instrumentation very helpful. Important references are included, as in an index. ... Springer Series in Optical Sciences Series Volume 87 ...

Min Gu - Wikipedia

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Optical Imaging and Microscopy - Techniques and Advanced ...

Introduction. To understand the imaging quality of a lens or an optical imaging system, one has to use wave optics which is based on the diffraction property of light. There are a number of excellent books that describe the imaging property of a lens using the diffraction theory [1.1-1.3]. However optical imaging theory of a lens has been advanced...