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Digital Holographic Microscopy Principles Techniques

An increasing number of researchers—not only in optical physics and optical engineering, but also in diverse applications areas

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such as microbiology, medicine, marine science, particle analysis, microelectromechanics, and metrology—are realizing and exploiting the new capabilities of digital holography. Digital Holographic Microscopy: Principles, Techniques, and Applications, by Dr. Myung K. Kim, is intended to provide a brief but consistent introduction to the principles of digital ...

Digital Holographic Microscopy - Principles, Techniques ...

A basic digital holographic microscopy (DHM) setup consists of an illumination source, an interferometer, a digitizing camera, and a computer with necessary programs. Most often a laser

(PDF) Principles and techniques of digital holographic ...

An increasing number of researchers—not only in optical physics and optical engineering, but also in diverse applications areas such as microbiology, medicine, marine science, particle analysis, microelectromechanics, and metrology—are realizing and exploiting the new capabilities of digital holography. Digital Holographic Microscopy: Principles, Techniques, and Applications, by Dr. Myung K. Kim, is intended to provide a brief but consistent introduction to the principles of digital ...

Digital Holographic Microscopy | SpringerLink

Digital holography is an emerging field of new paradigm in general imaging applications. We present a review of a subset of the research and development activities in digital holography, with emphasis on microscopy techniques and applications. First, the basic results from the general theory of holography, based on the scalar diffraction theory, are summarized, and a general description of the ...

Principles and techniques of digital holographic microscopy

Digital Holographic Microscopy: Principles, Techniques, and Applications, by Dr. Myung K. Kim, is intended to provide a brief but consistent introduction to the principles of digital holography as well as to give an organized overview of the large number of techniques and applications being developed.

Digital holographic microscopy : principles, techniques ...

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Digital Holographic Microscopy: Principles, Techniques ...

A number of techniques of DH are developed especially for microscopy imaging and these are made possible because of the particular imaging characteristics of DH. Digital holographic and interferometric principles are the basis of many ... and P. Grosfils, "Dark-field digital holographic microscopy to investigate objects that are ...

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Digital holographic microscopy is digital holography applied to microscopy. Digital holographic microscopy distinguishes itself from other microscopy methods by not recording the projected image of the object. Instead, the light wave front information originating from the object is digitally recorded as a hologram, from which a computer calculates the object image by using a numerical reconstruction algorithm. The image forming lens in traditional microscopy is thus replaced by a ...

Digital holographic microscopy - Wikipedia

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Digital Holographic Microscopy: Principles, Techniques ...

Digital Holographic Microscopy Book Description : Digital holography is an emerging field of new paradigm in general

imaging applications. The book presents an introduction to the theoretical and numerical principles and reviews the research and development activities in digital holography, with emphasis on the microscopy techniques and applications.

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Kim: Principles and techniques... A significant constraint of digital holography is the pixel count and resolution of the imaging devices. Suppression of the zero-order and twin images by phase-shifting digital holography allowsefficientuseofthepixelarray[24].DigitalGaborholography,withoutseparatereference

Principles and techniques of digital holographic microscopy

We present a review of a subset of the research and development activities in digital holography, with emphasis on microscopy techniques and applications. First, the basic results from the general theory of holography, based on the scalar diffraction theory, are summarized, and a general description of the digital holographic microscopy process is given, including quantitative phase microscopy.

Principles and techniques of digital holographic microscopy

Myung K. Kim, "Principles and techniques of digital holographic microscopy", SPIE Rev 1, 018005 (2010). > pdf : Digital holography is an emerging field of new paradigm in general imaging applications.

DHML | digital holography & microscopy laboratory

Microscopy is the technical field of using microscopes to view objects and areas of objects that cannot be seen with the naked eye (objects that are not within the resolution range of the normal eye). There are three well-known branches of microscopy: optical, electron, and scanning probe microscopy, along with the emerging field of X-ray microscopy.

Microscopy - Wikipedia

Holographic Microscopy. Holographic microscopy is the most

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common form of quantitative phase imaging. The HoloMonitor[®] live cell imaging microscope employs digital holographic microscopy to allow non-invasive visualization and quantification of living cells without compromising cell integrity. Conventional Holography. A traditional hologram is recorded on a photographic plate.

Holographic Microscopy | PHI

SPIE offers in open access a comprehensive review (51 pages!) of techniques for digital holographic microscopy in its SPIE Reviews electronic journal. The abstract reads: Digital holography is an emerging field of new paradigm in general imaging applications. We present a review of a subset of the research and development activities in digital holography, with emphasis on microscopy techniques ...

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Principles and techniques of digital holographic microscopy
Principles and techniques of digital holographic microscopy Kim, Myung K. 2010-01-01 00:00:00 University of South Florida, Department of Physics, 4202 E. Fowler Avenue, Tampa, Florida 33620 mkkim@cas.usf.edu Abstract. Digital holography is an emerging field of new paradigm in general imaging applications.

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