

## Digital Holographic Microscopy Principles Techniques And Applications Springer Series In Optical Sciences

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Digital Holographic Microscopy: Principles, Techniques ...

Digital Holographic Microscopy. Provides the foundations and new developments of digital holography with emphasis on the microscopy techniques and applications Presents vital mathematical and numerical principles in a clear, yet highly-detailed manner. Supplies a concise but comprehensive introduction to the field, allowing the reader to attain enough technical background to begin experimentation and exploration.

Digital Holographic Microscopy - Principles, Techniques ...

Digital Holographic Microscopy: Principles, Techniques, and Applications (Springer Series in Optical Sciences Book 162) eBook: Kim, Myung K.: Amazon.co.uk: Kindle Store

Digital Holographic Microscopy: Principles, Techniques ...

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

Principles and techniques of digital holographic microscopy Myung K. Kim 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 appli-cations.

Principles and techniques of digital holographic microscopy

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

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Digital Holographic Microscopy: Principles, Techniques and Applications by Myung K. Kim, Springer (2011) Coherent Light Microscopy: Imaging and Quantitative Phase Analysis edited by Pietro Ferraro, Springer (2011) Digital Holography for MEMS and Microsystem Metrology edited by Erdal Cayirci, Wiley (2011)

Digital holographic microscopy - Wikipedia

Digital holographic microscopy (DHM) is an emerging technique for 3-dimensional imaging and tracking of microorganisms [105] and for in vitro analysis of cellular and subcellular processes such as ion channel function and apoptosis [7, 8]. Digital holograms measure the interference of a light wave that has been diffracted through a sample and combined with a coherent, non-diffracted reference wave.

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The Holographic Microscopy Principle Holographic microscopy creates (quantitative) phase images by letting a sample beam and a reference beam interfere to create an interference pattern or hologram, as shown in the principle image below. The hologram is recorded by an image sensor and computer-processed to produce the final phase image.

Holographic Microscopy | PHH

A survey is also given of representative application areas, including biomedical microscopy, particle field holography, micrometrology, and holographic tomography, as well as some of the special techniques, such as holography of total internal reflection, optical scanning holography, digital interference holography, and heterodyne holography.

Principles and techniques of digital holographic microscopy

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Digital Holographic Microscopy: Principles, Techniques ...

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.

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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. This will also shed some light on the range of possibilities for further developments.

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