

## Speckle Phenomena In Optics Theory And The Applications

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### Speckle Phenomena In Optics Theory

Speckle, a granular structure appearing in images and diffraction patterns produced by objects that are rough on the scale of an optical wavelength, is a ubiquitous phenomenon, appearing in optics, acoustics, microwaves, and other fields. This book provides comprehensive coverage of this subject, including both the underlying statistical theory and the applications of this phenomenon.

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Speckle noise is an optical phenomenon that occurs when multiple sources of coherent light interfere mutually [93]. The bright and dark dots appearing in the speckle pattern are caused by the ...

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Speckle Phenomena in Optics tells it all. It gives a detailed description of speckle, explains techniques for suppressing speckle, and it gives several applications of speckle in imaging and metrology. Once again, Joseph W. Goodman has provided us with a clearly written technical book that will become a classic in its field."

## **Speckle Phenomena in Optics: 9781936221141: Medicine**

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DOI: 10.1360/ze2007-37-5-721 Corpus ID: 116391405. Speckle Phenomena in Optics: Theory and Applications @inproceedings{Goodman2006SpecklePI, title={Speckle Phenomena in Optics: Theory and Applications}, author={Joseph W. Goodman}, year={2006} }

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The speckle effect is a result of the interference of many waves of the same frequency, having different phases and amplitudes, which add together to give a resultant wave whose amplitude, and therefore intensity, varies randomly.

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## **Speckle pattern - Wikipedia**

Volume 19, number 3 OPTICS COMMUNICATIONS December 1976 SPECKLE PATTERNS IN POLYCHROMATIC LIGHT E. JAKEMAN and E.R. PIKE Royal Radar Establishment, Malvern, Worcs, England and G. PARRY Physics Dept., Imperial College, London SW72BZ, England B. SALEH Max-Planck-Institut f biophysikalische Chemie, Karl-Friedrich-Bonhoeffer-Institut, Am Fassberg, Postfach 968, D-3400 Gtingen-Nikolausberg, Fed ...

## **Speckle patterns in polychromatic light - ScienceDirect**

OPTICS Distortion matrix concept for deep optical imaging in scattering media Amaury Badon<sup>1</sup>, Victor Barolle<sup>1</sup>, Kristina Irsch<sup>2,3</sup>, A. Claude Boccara<sup>1</sup>, Mathias Fink<sup>1</sup>, Alexandre Aubry<sup>1\*</sup> In optical imaging, light propagation is affected by the inhomogeneities of the medium. Sample-induced aberrations

## **OPTICS Copyright © 2020 Distortion matrix concept for deep ...**

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This Proceedings comprises the written counterparts of 80 presentations - invited, contributed and poster - given during an international conference held in Lausanne, Switzerland, September 25 - 28, 2

## **Interferometry in Speckle Light | SpringerLink**

Recognizes an original use of optics across multiple fields. The medal was established in 1961 in memory of OSA charter member C. E. K. Mees, who contributed preeminently to the development of scientific photography. The Mees family endowed the medal to recognize achievements that exemplifies the thought that "optics transcends all boundaries.

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## **C.E.K. Mees Medal - Awards - OSA.org | The Optical Society**

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## **Speckle Phenomena in Optics : Joseph W. Goodman ...**

Speckle Phenomena in Optics provides a comprehensive discussion of the statistical properties of speckle, as well as detailed coverage of its role in applications. Some of the applications discussed include speckle in astronomy, speckle in the eye, speckle in projection displays, speckle in coherenc...

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## **Speckle phenomena in optics : theory and applications ...**

Laser Speckle and Applications in Optics focuses on developments in laser speckle techniques, with emphasis on the experimental aspect of phenomena and on applications in optics.

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