

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.

Speckle Phenomena in Optics: Theory and Applications ...

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 ...

Speckle Phenomena in Optics: Theory and Applications. This book provides a comprehensive discussion of the statistical properties of speckle, as well as detailed coverage of its role in applications.

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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 ...

Speckle Phenomena in Optics: Theory and Applications ...

Joseph W. Goodman: Speckle Phenomena in Optics: Theory and Applications. Roberts & Company (Englewood, Colorado), 2007. Isaac Freund 1 ...

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Ebook Quantitative Biomedical Optics: Theory, Methods, and Applications (Cambridge Texts in

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A speckle pattern is produced by the mutual interference of a set of coherent wavefronts. Although this phenomenon has been investigated by scientists since the time of Newton, speckles have come into prominence since the invention of the laser. They have been used in a variety of applications in microscopy, imaging, and optical manipulation. Speckle patterns typically occur in diffuse ...

Speckle pattern - Wikipedia

Speckle is the spatial fluctuation of irradiance seen when coherent light is reflected from a rough surface. It is due to light reflected from the surface's many nooks and crannies accumulating vastly discrepant time delays, spanning much more than an optical period, en route to an observation point.

OSA | Speckled speckled speckle

Speckle Phenomena in Optics: Theory and Applications Definitive text about the speckle phenomena by the leading expert. Be the first to ask a question about Speckle Phenomena in Optics.

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Speckle Phenomena in Optics: Goodman, Prof. Joseph ...

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.

Laser Speckle and Applications in Optics - 1st Edition

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An avenue of attack on the problems of active imaging (speckle from diffuse targets and the requirement for strategic orientation for specular targets) is provided by the very high brightness temperature of modest illuminator power confined in a narrow bandwidth.

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Speckle | The Microwave Laboratory

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