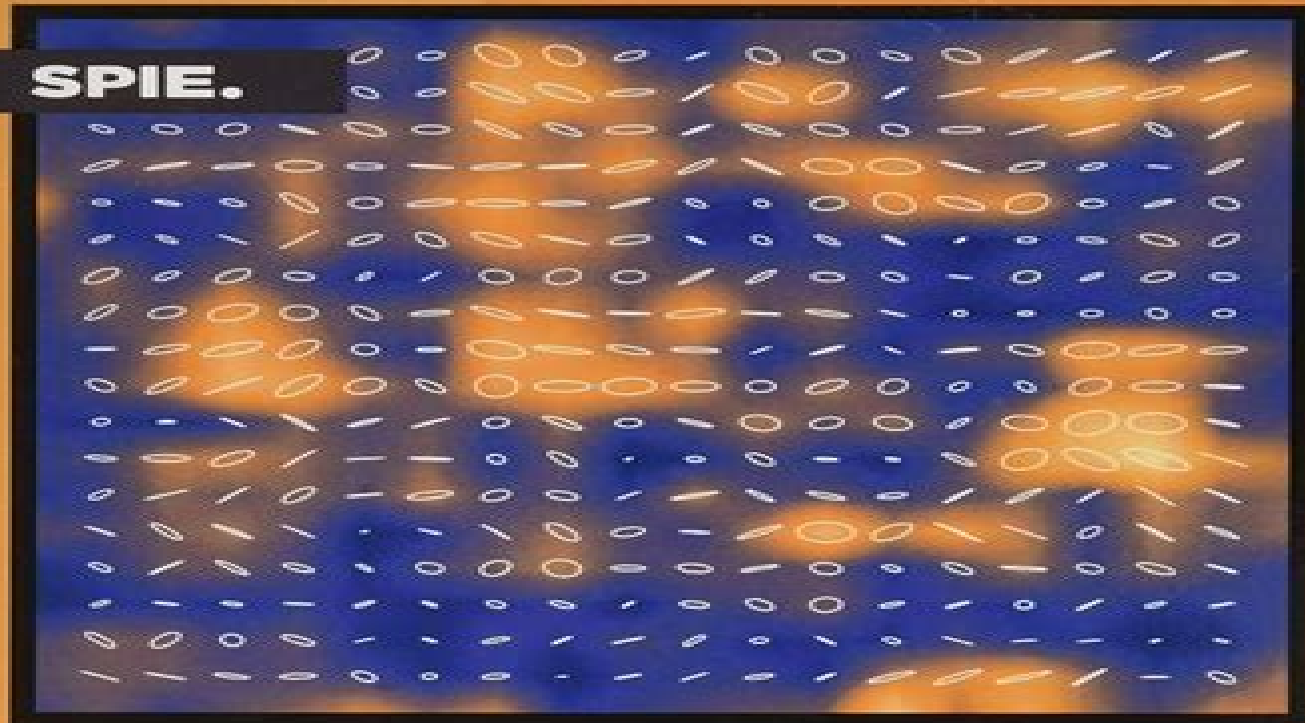


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SPECKLE PHENOMENA IN OPTICS

THEORY AND APPLICATIONS

Second Edition

Joseph W. Goodman

Speckle Phenomena In Optics

Hector J. Rabal, Roberto A. Braga Jr.



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Phenomena In Optics Joseph W Goodman, 2008-01-01 If you work in optics you quickly learn that you can either fight speckle to try to get rid of it or you can take advantage of speckle for many 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 Joseph W Goodman has provided a clearly written technical book that will become a classic in its field A fascinating consequence of optical coherence speckle has become one of the major optical phenomena Most often but not necessarily always associated with laser illumination it is relevant for the basic understanding of scattering phenomena and for application to high technology alike from the Brownian motion to integrated circuit lithography and to the imaging of the sky by large telescopes This book broadly encompasses the conceptual and mathematical tools relevant for analyzing speckle phenomena together with all major applications Its readers will benefit from J W Goodman's fine understanding of physics and his famous skills as a teacher *Speckle Phenomena In Optics Theory And Applications* J.W.

Goodman, 2007 **Speckle Phenomena in Optics** Joseph W. Goodman, 2020 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 both the underlying statistical theory and the applications of this phenomenon This is a second edition containing improvements of several sections and addition of significant amounts of new material New material includes new sections on generalized random walks a rewritten section on speckle in the eye new sections on polarization speckle including discussion of the statistics of the Stokes parameters in a speckle pattern new discussions of the effects of angle and wavelength changes on speckle new sections on the statistics of speckle from smooth surfaces and a new section on a spectrometer based on speckle Many new references are included As with the first edition a multitude of areas of application are covered

Encyclopedia of Optical Engineering: Pho-Z, pages 2049-3050 Ronald G. Driggers, 2003 Compiled by 330 of the most widely respected names in the electro optical sciences the Encyclopedia is destined to serve as the premiere guide in the field with nearly 2000 figures 560 photographs 260 tables and 3800 equations From astronomy to x ray optics this reference contains more than 230 vivid entries examining the most intriguing technological advances and perspectives from distinguished professionals around the globe The contributors have selected topics of utmost importance in areas including

digital image enhancement biological modeling biomedical spectroscopy and ocean optics providing thorough coverage of recent applications in this continually expanding field

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Advances in Speckle Metrology and Related Techniques Guillermo H. Kaufmann, 2011-01-25 Speckle metrology includes various optical techniques that are based on the speckle fields generated by reflection from a rough surface or by transmission through a rough diffuser These techniques have proven to be very useful in testing different materials in a non destructive way They have changed dramatically during the last years due to the development of modern optical components with faster and more powerful digital computers and novel data processing approaches This most up to date overview of the topic describes new techniques developed in the field of speckle metrology over the last decade as well as applications to experimental mechanics material science optical testing and fringe analysis

Dynamic Laser Speckle and Applications Hector J. Rabal, Roberto A. Braga Jr., 2018-10-03 Speckle study constitutes a multidisciplinary area with inherent complexities In order to conquer challenges such as the variability of samples and sensitive measurements researchers must develop a theoretical and statistical understanding of both biological and non biological metrology using dynamic speckle laser Dynamic Laser Speckle and Applications discusses the main methodologies used to analyze biospeckle phenomena with a strong focus on experimentation After establishing a theoretical background in both speckle and biospeckle the book presents the main methodologies for statistical and image analysis It then deals with the concept of frequency decomposition before moving on to a discussion of fuzzy methods to treat dynamic speckle data The book dedicates two sections to applications including agricultural approaches Additional features include photo images of experiments and software to aid in easy start up of dynamic speckle usage A systematic approach to new dynamic speckle laser phenomena this book provides the physical theory and statistical background needed to analyze images formed by laser illumination in biological and non biological samples

Speckle Imaging Using Aperture Modulation Abdallah Hamed, 2024-05-14 This book covers speckle image formation using a variety of modulated apertures The central theme revolves around theoretical analyses specifically the calculation of impulse responses or Point Spread Functions PSFs corresponding to these apertures These calculations provide crucial insights into the resolution inherent in the resulting speckle images The book begins with an examination of the recognition of the direction of new apertures from elongated speckle images setting the stage for subsequent discussions The theoretical analyses extend to diverse aperture designs including Gaussian graded index and modulated apertures The book delves into the nuanced dynamics of contrast in speckle

images exploring the Voigt distribution and the effects of modulation on contrast In addition to aperture centric discussions the book addresses the processing of the formed speckle images The chapters impart a comprehensive understanding of speckle imaging encompassing discrimination in microscopy using digital speckle images the utilization of concentric hexagonal pupils and the exploration of irregular apertures The book culminates in a detailed exploration of speckle imaging in the context of an annular Hermite Gaussian laser beam Overall this book serves as a valuable resource for researchers and academics seeking a profound exploration of speckle image formation modulation and processing across a spectrum of apertures and theoretical frameworks

Optical Metrology and Optoacoustics in Nondestructive Evaluation of Materials Zinoviy Nazarchuk, Leonid Muravsky, Dozyslav Kuryliak, 2023-05-23 This book includes the description modeling and realization of new optical metrology techniques for technical diagnostics of materials Special attention is paid to multi step phase shifting interferometry with arbitrary phase shifts between interferograms phase shifting and correlation digital speckle pattern interferometry optical digital speckle correlation and digital image correlation as well as dynamic speckle patterns analysis Optoacoustic techniques can be treated as a separate branch of optical metrology and can solve many problems of technical diagnostics including detection and localization of subsurface defects in laminated composite materials The utility of such techniques can be increased by illumination of the object via acoustic waves at certain frequencies Hence an effective theoretical approach to the modeling of an elastic wave field interaction with an interphase defect and to defect visualization using dynamic speckle patterns is also included in this book The experimental proof of the proposed approaches was achieved using a specially created hybrid optical digital system for detection of different subsurface defects This book is intended for engineers researchers and students engaged in the field of nondestructive evaluation of materials and technical diagnostics of structural elements hybrid optical systems speckle metrology and optoacoustic imaging techniques

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