



Dynamic Laser Speckle and Applications (Optical Science and Engineering)

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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.

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