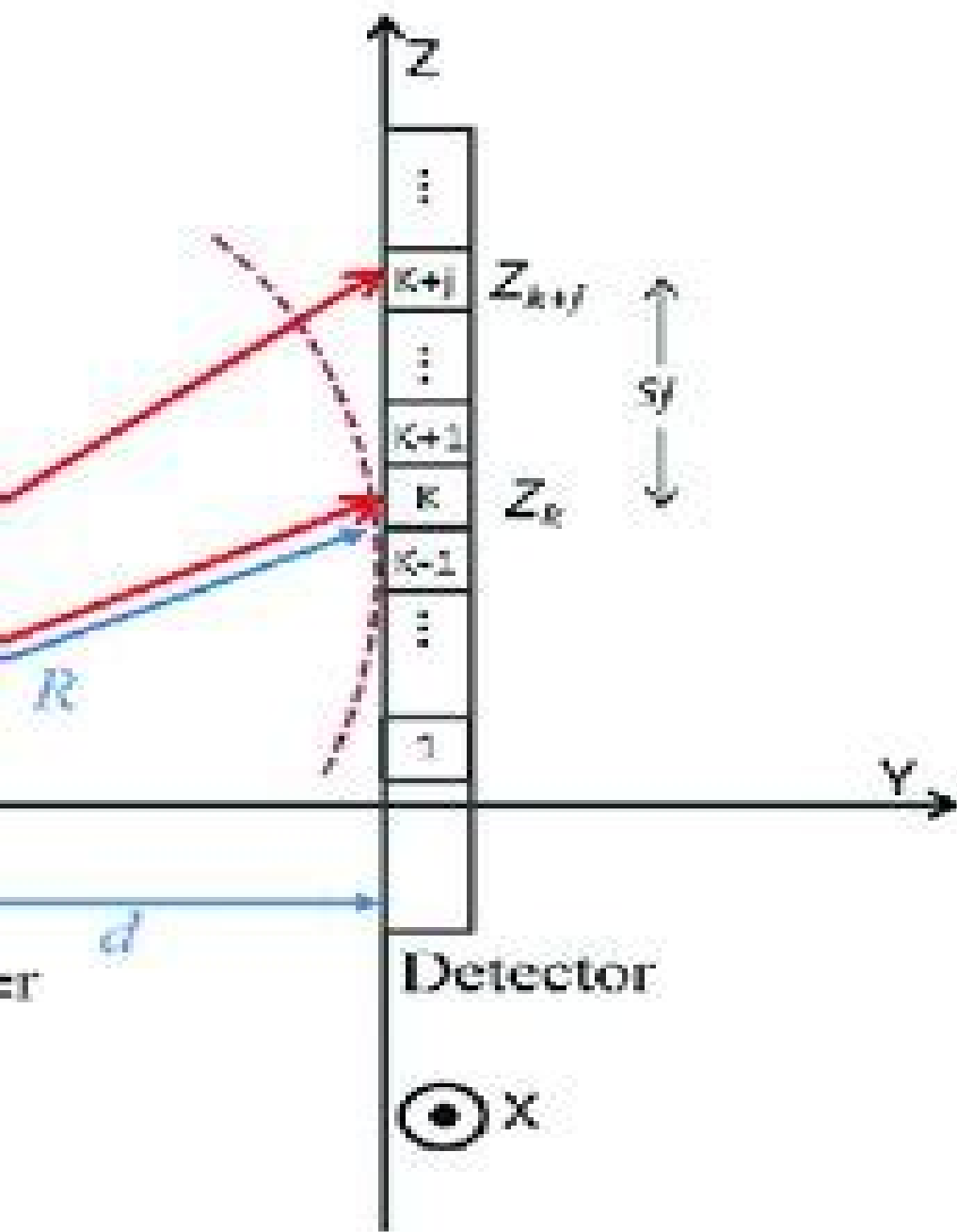
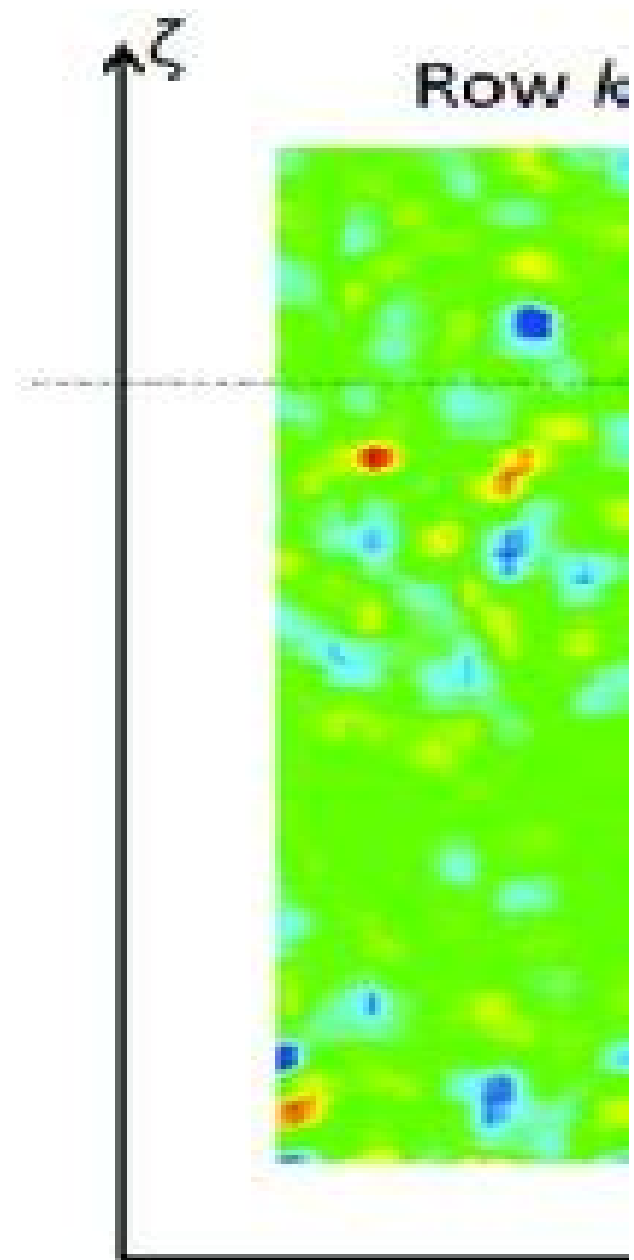




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Speckle Metrology

Yicheng Fang



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Speckle Metrology R Erf, 2012-12-02 Speckle Metrology presents a diverse and wide collection of metrological speckle techniques and applications The book discusses both theoretical concepts and experimental methods in speckle based measurements Some chapters introduce speckle terminology and the physical characteristics of speckle Other aspects also covered in the book include methodology system geometries data reduction procedures and specific applications These applications are discussed in detail in individual chapters such as structures inspection Adaptation of speckle measurement techniques in video recording and processing technology is also given emphasis in one chapter Finally one chapter is dedicated to a discussion on the speckle interferometer as one of the most used instrument in metrological speckle application This text is a valuable reference to students in the fields of engineering and applied science Speckle Metrology Sirohi, 2020-08-18 This practical reference offers state of the art coverage of speckle metrology and its value as a measuring technique in industry Examining every important aspect of the field Speckle Metrology surveys the origin of speckle displacement and decorrelation presents procedures for deformation analysis and shape measurement of rough objects explains particle image velocimetry PIV the processing of PIV records and the design requirements of PIV equipment discusses the applications of white light speckle methods and the production of artificial speckles describes the measurement of surface roughness with laser speckles and polychromatic speckles illustrates semiautomatic and automatic methods for the analysis of Young s fringes calculates the variation of Young s fringes with the change in the microrelief of the rough surface and explicates hololenses for imaging and provides design details with aberration corrections for hololense systems With over 1500 literature citations tables figures and display equations Speckle Metrology is a resource for students and professionals in the fields of optical mechanical electrical and electronics engineering applied physics and stress analysis

Selected Papers on Speckle Metrology R. S. Sirohi, 1991 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 **Optical Methods of Measurement** Rajpal Sirohi, 2018-09-03 Optical Methods of Measurement Wholefield Techniques Second Edition provides a comprehensive collection of wholefield optical measurement techniques for engineering applications Along with the reorganization of contents this edition includes a new chapter on optical interference new material on nondiffracting and singular beams and their applications and updated bibliography and additional reading

sections The book explores the propagation of laser beams metrological applications of phase singular beams various detectors such as CCD and CMOS devices and recording materials It also covers interference diffraction and digital fringe pattern measurement techniques with special emphasis on phase measurement interferometry and algorithms The remainder of the book focuses on theory experimental arrangements and applications of wholefield techniques The author discusses digital hologram interferometry digital speckle photography digital speckle pattern interferometry Talbot interferometry and holophotoelasticity This updated book compiles the major wholefield methods of measurement in one volume It provides a solid understanding of the techniques by describing the physics behind them In addition the examples given illustrate how the techniques solve measurement problems

Handbook of Optical Metrology Toru Yoshizawa, 2009-02-25 The field of optical metrology offers a wealth of both practical and theoretical accomplishments and can cite any number of academic papers recording such However while several books covering specific areas of optical metrology do exist until the pages herein were researched written and compiled the field lacked for a comprehensive handbook one providing an overview of optical metrology that covers practical applications as well as fundamentals Carefully designed to make information accessible to beginners without sacrificing academic rigor the Handbook of Optical Metrology Principles and Applications discusses fundamental principles and techniques before exploring practical applications With contributions from veterans in the field as well as from up and coming researchers the Handbook offers 30 substantial and well referenced chapters In addition to the introductory matter forward thinking descriptions are included in every chapter that make this a valuable reference for all those involved with optical metrology

Optical Methods in Engineering Metrology D.C. Williams, 2012-12-06 Optical methods stimulated by the advent of inexpensive and reliable lasers are assuming an increasingly important role in the field of engineering metrology Requiring only a basic knowledge of optics this text provides a compendium of practical information prepared by leaders in the field

Handbook of Metrology and Applications Dinesh K. Aswal, Sanjay Yadav, Toshiyuki Takatsuji, Prem Rachakonda, Harish Kumar, 2023-08-23 This handbook provides comprehensive and up to date information on the topic of scientific industrial and legal metrology It discusses the state of art review of various metrological aspects pertaining to redefinition of SI Units and their implications applications of time and frequency metrology certified reference materials industrial metrology industry 4 0 metrology in additive manufacturing digital transformations in metrology soft metrology and cyber security optics in metrology nano metrology metrology for advanced communication environmental metrology metrology in biomedical engineering legal metrology and global trade ionizing radiation metrology advanced techniques in evaluation of measurement uncertainty etc The book has contributed chapters from world s leading metrologists and experts on the diversified metrological theme The internationally recognized team of editors adopt a consistent and systematic approach and writing style including ample cross reference among topics offering readers a user friendly knowledgebase greater than the sum of its parts perfect for frequent consultation Moreover

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Optical Measurement Methods in

Biomechanics J.C. Shelton,J.F. Orr,2007-08-19 This book has been written to provide research workers with an introduction to several optical techniques for new applications It is intended to be comprehensible to people from a wide range of backgrounds no prior optical or physics knowledge has been assumed However sufficient technical details have been included to enable the reader to understand the basics of the techniques and to be able to read further from the references if necessary The book should be as useful to postgraduate students and experienced researchers as those entering the bioengineering field irrespective of whether they have a technical or clinical background It has been prepared with an awareness of the inherent difficulties in understanding aspects of optics which in the past have precluded practical application The contents address a broad range of optical measurement techniques which have been used in biomechanics techniques characterized as non contacting and non destructive Theoretical outlines and practical advice on gaining entry to the fields of expertise are complemented by biomechanical case studies and key literature references The aim is to present each technique to appraise its advantages and capabilities and thereby to allow informed selection of an appropriate method for a particular application It is anticipated that research workers will be assisted in establishing new methodologies and gain first hand experience of the techniques

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