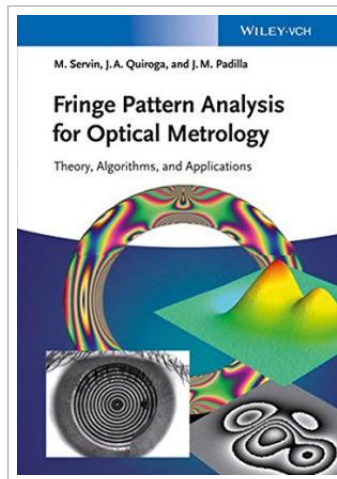




# Fringe Pattern Analysis for Optical Metrology

By Servin, Manuel / Quiroga, J. Antonio

Condition: New. Publisher/Verlag: Wiley-VCH | Theory, Algorithms, and Applications | The main objective of this book is to present the basic theoretical principles and practical applications for the classical interferometric techniques and the most advanced methods in the field of modern fringe pattern analysis applied to optical metrology. A major novelty of this work is the presentation of a unified theoretical framework based on the Fourier description of phase shifting interferometry using the Frequency Transfer Function (FTF) along with the theory of Stochastic Process for the straightforward analysis and synthesis of phase shifting algorithms with desired properties such as spectral response, detuning and signal-to-noise robustness, harmonic rejection, etc. | Chapter 1 Digital Linear Systems1.1 Introduction1.2 Digital Sampling1.3 Linear time-invariant (LTI) systems1.4 Z-transform analysis of digital linear systems1.5 Fourier analysis of digital linear systems1.6 Convolution one-dimensional digital filters1.7 Convolution two-dimensional linear filters1.8 Linear regularized filtering techniques1.9 Stochastic processes1.10 Linear quadrature filtersChapter 2 Synchronous Temporal Interferometry2.1 Introduction2.2 The temporal carrier interferometric signal2.3 Quadrature linear filters for phase estimation2.4 The minimum 3-step PSA2.5 Least-squares PSAs2.6 Detuning in temporal interferometry2.7 Noise in temporal interferometry2.8 Harmonics in temporal interferometry2.9 Quadrature filters design by 1st-order building blocks2.10 Some further topics in linear PSAs theoryChapter 3 Asynchronous...



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