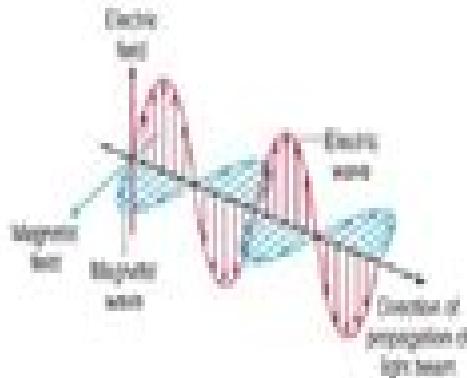


“Optical Method of Analysis”



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Optical Methods of Engineering Analysis Gary L. Cloud, 1998-05-28 Fundamental measurement problems in engineering mechanics manufacturing and physics are now being solved by powerful optical methods. This book presents a lucid up to date discussion of these optical methods. Beginning from a firm base in modern optics the book proceeds through relevant theory of interference and diffraction and integrates this theory with descriptions of laboratory techniques and apparatus. Among the techniques discussed are classical interferometry, photoelasticity, geometric moire, spatial filtering, moire interferometry, holography, holographic interferometry, laser speckle interferometry and video based speckle methods. By providing a firm base in the physical principles and at the same time allowing the reader to perform meaningful experiments related to the topic being studied the book offers a unique user oriented approach that will appeal to students, researchers and practising engineers

IUTAM Symposium on Advanced Optical Methods and Applications in Solid Mechanics Alexis Lagarde, 2006-04-11 The request to organize under its patronage at Poitiers in 1998 a Symposium entitled Advanced Optical Methods and Applications in Solid Mechanics by the International Union of Theoretical and Applied Mechanics I U T A M was well received for the following two reasons. First for nearly 20 years no Symposium devoted to optical methods in solids had been organized. Second recent advances in digital image processing provided many new applications which are described in the following. We have the honour to present here the proceedings of this Symposium. The Symposium took place from August 31 to September 4 at the Institut International de la Prospective in Futuroscope near Poitiers. A significant number of internationally renowned specialists had expressed their wish to participate in this meeting. The Scientific Committee proposed 16 general conferences and selected 33 regular lectures and 17 poster presentations. Papers corresponding to posters are not differentiated in the proceedings from those that were presented orally. It is worth noting that a total of 80 participants representing 16 countries registered for this symposium. The Scientific Committee deserves praise for attracting a significant number of young scientists both as authors and as participants. Let us add our warm acknowledgements to Professor J W Dally and to Professor A S Kobayashi who throughout the symposium preparation time brought us valuable help

Optical Methods for Solid Mechanics Pramod K. Rastogi, Erwin Hack, 2013-03-11 Im Lehrbuchstil verfasst bringt Ihnen dieser in seiner Art konkurrenzlose Band Schritt für Schritt die Hintergründe optischer Messmethoden in der Festkörpermechanik nahe. Lassen Sie sich einführen in bildgebende und bildverarbeitende Verfahren und lesen Sie nach aufsichtlicher Anleitung die eingeschobenen Aufgaben. Dieser wie ein Lehrbuch konzipierte Band bietet Ihnen eine umfassende vertiefende Einführung in die optischen Messverfahren der Festkörpermechanik. Er macht Sie mit den Grundlagen der Methoden vertraut, hilft Ihnen die für Ihre Anforderungen geeignete Methode auszuwählen, unterstützt Sie bei der vergleichenden Bewertung verschiedener Messsysteme, stellt Ihnen nützliche Tipps und Faustregeln zur Effektivierung Ihrer Messanordnung zur Verfügung. Die einzelnen Kapitel haben nicht das Ziel, das

jeweilige Themen theoretisch erschöpfend abzuhandeln sondern wollen knapp und konzentriert in Konzepte und Prinzipien einführen Ihnen das Thema Schritt für Schritt nahebringen unterstützt durch eingeschobene Aufgaben mit Lösungen Ihnen sinnvolle Faustregeln für das Experimentieren anbieten das Wiederholen des Stoffes mit einer Zusammenfassung undbungsaufgaben an den Kapitelenden erleichtern **Library of Congress Subject Headings** Library of Congress,1990

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

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