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industrial applications to control quality of manufacturing process for materials such as glass [6] and polymer. [7]

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A new, general method is described for the  
photoelastic determination of the principal stresses at  
any point of a general body subjected to arbitrary  
loads. The method has been applied to a sphere  
subjected to diametral compressive loads. The results  
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Description. Photoelasticity presents the development of photoelasticity. This book discusses the principle of optical equivalence of stressed isotropic bodies.

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Organized into 29 chapters, this book begins with an overview of the progress in three-dimensional photoelasticity. This text then summarizes the approximate theoretical analysis by the strain-energy technique and derives the basic equations for the evaluation of P and Q by graphical integration.

Photoelasticity for Designers covers the fundamental principles and techniques of photoelasticity, with an emphasis on its value as an aid to engineering design. This book is divided into 12 chapters, and begins with an introduction to the essential optical effects

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necessary for an understanding of the photoelastic phenomena. The next chapters describe the concept and features of polariscopes; the characterization of photoelastic materials; the formulation and testing of two-dimensional models of photoelasticity; and the application of model stresses to prototypes for the analysis of stresses occurring in the plane of the model, effectively of uniform thickness. These topics are followed by a discussion of the frozen stress technique and a comparison of the various materials that can be used for models in the technique. The ending chapters deal with the principles and application of the birefringent coating and distorted model techniques. This book will prove useful to



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photoelasticians, design engineers, and students.

The Handbook of Engineering Design aims to give accurate information on design from past publications and past papers that are relevant to design. The book is divided into two parts. Part 1 deals with stages in design as well as the factors to consider such as economics, safety, and reliability; engineering

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materials, its factors of safety, and the choice of material; stress analysis; and the design aspects of production processes. Part 2 covers the expansion and contraction of design; the preparation of technical specification; the design audit; and the structure and organization of design offices. The text is recommended to engineers who are in need of a guide that is easy to understand and concise.

A straightforward introduction to basic concepts and

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methodologies for digital photoelasticity, providing a foundation on which future researchers and students can develop their own ideas. The book thus promotes research into the formulation of problems in digital photoelasticity and the application of these techniques to industries. In one volume it provides data acquisition by DIP techniques, its analysis by statistical techniques, and its presentation by computer graphics plus the use of rapid prototyping technologies to speed up the entire process. The book not only presents the various techniques but also provides the relevant time-tested software codes. Exercises designed to support and extend the treatment are found at the end of each chapter.

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This work shows how a new design in a load cell can be built using the principles of photoelasticity. From photoelasticity one knows that fringes denoting the stress pattern can be observed in a plastic model viewed in a polariscope. Through knowledge of the properties of the material one can determine the load necessary to produce a certain fringe. Two photocells can be used to measure the change in the fringe order. One photocell is used as a reference while the other photocell observes the changing light intensity, coming through a miniature polariscope, caused by the stress pattern. This difference in light intensity can be displayed on a meter which is calibrated to

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give a reading of the applied load. The stress optic constant varies for the different photoelastic materials giving the load cell several ranges of loading. Also, model size may be varied, giving additional selectivity in the range of loading while keeping the accuracy high. Load ranges may range from 0-2.7 ounces to 0-430 pounds. The load cell is easily calibrated by using dead weights. It is felt that this study has met the need of finding a low cost method of measuring small loads with relatively high accuracy.

Optical Metrology is a rapidly expanding field i'n both its scientific foundations and technological

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developments, being of major concern to measurements, quality control, non-destructive testing and in fundamental research. In order to define the state-of-the-art, and to evaluate present accomplishments, whilst giving an appraisal of how each of the particular topics will evolve the Optical Metrology-anAdvancedStudy Institute was organized with a concourse of the world's acknowledged experts. Thus, the Institute provided a forum for tutorial reviews blended with topics of current research in the form of a progressive and comprehensive presentation of recent promising developments, leading techniques and instrumentation in incoherent and coherent optics for

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Metrology, Sensing and Control in Science, Industry and Biomedicine. Optical Metrology is a very broad field which is highly interdisciplinary in its applications, and in its scientific and technological background. It is related to such diverse disciplines as physical and chemical sciences, engineering, electronics, computer sciences, biological sciences and theoretical sciences, such as statistics. Although there was an emphasis on photomechanics and industrial applications, a marked diversity was reflected in the different background and interests of the participants. The vitality and viability of the discipline was enhanced not only by the encouraging number of young scientists and industrialists

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participating and authoring, but also by the remarkably promising prospects found in x the practical applications supported by advanced electronic hybridization.

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