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Description 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 necessary for an understanding of the photoelastic phenomena.

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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 show possibilities of high accuracy.

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Description. Photoelasticity presents the development of photoelasticity. This book discusses the principle of optical equivalence of stressed isotropic bodies. 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 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 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 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.

Photoelasticity presents the development of photoelasticity. This book discusses the principle of optical equivalence of stressed isotropic bodies. 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. Other chapters consider the importance of stress concentrations in the domain of strength of materials, particularly where fatigue is present. This book discusses a well the various instructive fractures and indicates that the strength of bakelite is determined by the maximum tensile stresses as computed by advanced methods of stress analysis. The final chapter deals with the two fundamental problems in three-dimensional photoplasticity and explains the general stress-optic law under plastic flow without unloading. This book is a valuable resource for designers as well as mechanical and civil engineers.

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 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.