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A generalized method of analyzing experimental observations in problems of elastic stability is presented in which the initial readings of load and deflection may be taken at any load less than the critical load. This analysis is an extension of a method published by Southwell in 1932, in which it was assumed that the intial readings are taken at zero load.

Strength of materials is that branch of engineering concerned with the deformation and disruption of solids when forces other than changes in position or equilibrium are acting upon them. The development of our understanding of the strength of materials has enabled engineers to establish the forces which can safely be imposed on structure or components, or to choose materials appropriate to the necessary dimensions of structures and components which have to withstand given loads without suffering effects deleterious to their proper functioning. This excellent historical survey of the strength of materials with many references to the theories of elasticity and structures is based on an extensive series of lectures delivered by the author at Stanford University, Palo Alto, California. Timoshenko explores the early roots of the discipline from the great monuments and pyramids of ancient Egypt through the temples, roads, and fortifications of ancient Greece and Rome. The author fixes the formal beginning of the modern science of the strength of materials with the publications of Galileo's book, "Two Sciences," and traces the rise and development as well as industrial and commercial applications of the fledgling science from the seventeenth century through the twentieth century. Timoshenko fleshes out the bare bones of mathematical theory with

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Lucid demonstrations of important equations and brief biographies of highly influential mathematicians, including: Euler, Lagrange, Navier, Thomas Young, Saint-Venant, Franz Neumann, Maxwell, Kelvin, Rayleigh, Klein, Prandtl, and many others. These theories, equations, and biographies are further enhanced by clear discussions of the development of engineering and engineering education in Italy, France, Germany, England, and elsewhere. 245 figures.

Following Volumes III and IV that dealt with the fracture mechanics of concrete emphasizing both material testing and structural application in general, it was felt that specimen size and loading rate effects for concrete require further attention. The only criterion that has thus far successfully linearized the highly nonlinear crack growth data of concrete is the strain energy density theory. In particular, the crack growth resistance curves plotting the strain energy density factor versus crack growth known as the SR - curves are straight lines as specimen size and loading steps or rates are altered. This allows the extrapolation of data and provides a useful design methodology. This book is unique in that it is devoted specifically to the application of the strain energy density theory to civil engineering structural members made of concrete. Analyzed in detail is the strain softening behavior of concrete for a variety of different components including the influence of steel reinforcement. Permanent damage of the material is accounted for each increment of loading by invoking the mechanism of elastic unloading. This assumption is justified in concrete structures where the effective stiffness depends primarily on the crack growth rate and load history. Crack growth data are presented in terms of SR-curves with emphases placed on scaling specimen size which alone can change the mode of failure from plastic collapse to brittle fracture. Loading rate effects can also be scaled to control failure by yielding and fracture.

This book traces the evolution of theory of structures and strength of materials - the development of the geometrical thinking of the Renaissance to become the fundamental engineering science discipline rooted in classical mechanics. Starting with the strength experiments of Leonardo da Vinci and Galileo, the author examines the emergence of individual structural analysis methods and their formation into theory of structures in the 19th century. For the first time, a book of this kind outlines the development from classical theory of structures to the structural mechanics and computational mechanics of the 20th century. In doing so, the author has managed to bring alive the differences between the players with respect to their engineering and scientific profiles and personalities, and to create an understanding for the social context. Brief insights into common methods of analysis, backed up by historical details, help the reader gain an understanding of the history of structural mechanics from the standpoint of modern engineering practice. A total of 175 brief biographies of important personalities in civil and structural engineering as well as structural mechanics plus an extensive bibliography round off this work.

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