

# Theory Of Elastic Stability Second Edition

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the best available guide to the elastic stability of large

structures this volume was co authored by world renowned authorities on engineering mechanics it ranges from theoretical explanations of 2 and 3 d stress and strain to practical applications such as torsion bending thermal stress and wave propagation through solids equally valuable as text or reference 1961 edition

this book gives a unified presentation of the field of stability buckling and post buckling states are studied on the basis of total potential energy of structural systems emphasis is placed throughout the text on post buckling analysis and behaviour the sensitivity of buckling and post buckling states to changes in design parameters is also discussed as well as changes due to imperfections and damage

the subject discussed in this book is the stability of thin walled elastic systems under static loads the presentation of these problems is based on modern approaches to elastic stability theory special attention is paid to the formulation of elastic stability criteria to the statement of column plate and shell stability problems to the derivation of basic relationships and to a discussion of the boundaries of the application of analytic relationships the author has tried to avoid arcane nonstandard problems and elaborate and unexpected solutions which bring real pleasure to connoisseurs but confuse students and cause bewilderment to some practical engineers the author has an apprehension that problems which though interesting are limited in application can divert the reader s attention from the more prosaic but no less sophisticated general problems of stability theory

a general theory of elastic stability is presented in contrast to previous works in the field the present analysis is augmented by an investigation of the behavior of the buckled structure in the immediate neighborhood of the bifurcation point this investigation explains why some structures e g a flat plate supported along its edges and subjected to thrust in its plane are capable of carrying loads considerably above the buckling load while other structures e g an axially loaded cylindrical shell collapse at loads far below the theoretical critical load

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 initial readings are taken at zero load

when a structure is put under an increasing compressive load it

becomes unstable and buckling occurs buckling is a particularly significant concern in designing shell structures such as aircraft automobiles ships or bridges this book discusses stability analysis and buckling problems and offers practical tools for dealing with uncertainties that exist in real systems the techniques are based on two complementary theories which are developed in the text first the probabilistic theory of stability is presented with particular emphasis on reliability both theoretical and computational issues are discussed secondly the authors present the alternative to probability based on the notion of anti optimization a theory that is valid when the necessary information for probabilistic analysis is absent that is when only scant data are available design engineers researchers and graduate students in aerospace mechanical marine and civil engineering who are concerned with issues of structural integrity will find this book a useful reference source

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