Mechanics Of Elastic Structures

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Hao Chang Mario Como T. H. Lin Mario Como M. O. Zakaria liege Symposium on high speed computing of elastic structures George J. Simitses Piero Villaggio M. Pignataro Avraham Katz Dusan Krajcinovic Luis A. Godoy T. Vahl Olsen

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

elasticity theory is a classical discipline the mathematical theory of elasticity in mechanics especially the linearized theory is quite mature and is one of the foundations of several engineering sciences in the last twenty years there has been significant progress in several areas closely related to this classical field this applies in particular to the following two areas first progress has been made in numerical methods especially the development of the finite element method the finite element method which was independently created and developed in different ways by sci entists both in china and in the west is a kind of systematic and modern numerical method for solving partial differential equations especially el liptic equations experience has shown that the finite element method is efficient enough to solve problems in an extremely wide range of applica tions of elastic mechanics in particular the finite element method is very suitable for highly complicated problems one of the authors feng of this book had the good fortune to participate in the work of creating and establishing the theoretical basis of the finite element method he thought in the early sixties that the method could be used to solve computational problems of solid mechanics by computers later practice justified and still continues to justify this point of view the authors believe that it is now time to include the finite element method as an important part of the content of a textbook of modern elastic mechanics

very good no highlights or markup all pages are intact

this book presents the main results of extensive research on the diffraction radiation and propagation of elastic waves in isotropic and anisotropic media and bodies of various shapes based on integral equations the separation of variables the method of green s functions the method of finite elements and the method of boundary elements it explores the application of methods and equations of the theory of diffraction to the problems of synthesis of hydroacoustic antennas and considers the spatial characteristics of loudspeakers the book also provides a detailed description of the acoustic monitoring of oil products in different volumes

this monograph presents the mechanics of vibration buckling and bending of elastic structures with inclined members such as x braced high rise frames and conical shells more than giving detailed derivations of basic equations mechanics of elastic structures with inclined members is mainly oriented towards practical problem solving the book can be used as a textbook for graduate students concentrating on structural mechanics or as a reference book for engineers and researchers in the fields of engineering mechanics civil engineering mechanical engineering and aerospace engineering

theory of stability of continuous elastic structures presents an applied mathematical treatment of the stability of civil engineering structures the book s modern and rigorous approach makes it especially useful as a text in advanced engineering courses and an invaluable reference for engineers

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elastic structures conceived as slender bodies able to transmit loads have been studied by scientists and engineers for centuries by the seventeenth century several useful theories of elastic structures had emerged with applications to civil and mechanical engineering problems in recent years improved mathematical tools have extended applications into new areas such as geomechanics and biomechanics this book first published in 1998 offers a critically filtered collection of the most significant theories dealing with elastic slender bodies it includes mathematical models involving elastic structures which are used to solve practical problems with particular emphasis on nonlinear problems this collection of interesting and important problems in elastic structures will appeal to a broad range of scientists

engineers and graduate students working in the area of structural mechanics

a comprehensive and systematic analysis of elastic structural stability is presented in this volume traditional engineering buckling concepts are discussed in the framework of the liapunov theory of stability by giving an extensive review of the koiter approach the perturbation method for both nonlinear algebraic and differential equations is discussed and adopted as the main tool for postbuckling analysis the formulation of the buckling problem for the most common engineering structures rods and frames plates shells and thin walled beams is performed and the critical load evaluated for problems of interest in many cases the postbuckling analysis up to the second order is presented the use of the ritz galerkin and of the finite element methods is examined as a tool for approximate bifurcation analysis the volume will provide an up to date introduction for non specialists in elastic stability theory and methods and is intended for graduate and post graduate students and researchers interested in nonlinear structural analysis problems basic prerequisites are kept to a minimum a familiarity with elementary algebra and calculus is all that is required of readers to make use of this book

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

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