

Feng Kang · Shi Zhong-Ci

Mathematical Theory of Elastic Structures



Springer

Mathematical Theory Of Elastic Structures

Tian-You Fan



Mathematical Theory Of Elastic Structures:

Mathematical Theory of Elastic Structures Kang Feng,Zhong-Ci Shi,2013-04-17 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 scientists both in China and in the West is a kind of systematic and modern numerical method for solving partial differential equations especially elliptic equations Experience has shown that the finite element method is efficient enough to solve problems in an extremely wide range of applications 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

Mathematical Theory of Elastic Structures Kang Feng,Chung-tz' u Shih,1996 *Mathematical Theory of Uniform Elastic Structures* Marek Elżanowski,1995 *Mathematical Models for Elastic Structures* Piero Villaggio,1997-10-28 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 **Theory of Stability of Continuous Elastic Structures** Mario Como,Antonio

Grimaldi,1995-06-29 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

Mathematical Theory of Uniform Elastic Structures Marek Elżanowski (matematyk),1995 **Mathematical Theory of Elastic and Elasto-Plastic Bodies** J. Necas,I. Hlaváček,2017-02-01 The book acquaints the reader with the basic concepts and relations of elasticity and plasticity and also with the contemporary state of the theory covering such aspects as the nonlinear models of elasto plastic bodies and

of large deflections of plates unilateral boundary value problems variational principles the finite element method and so on

Mathematical Theory of Uniform Elastic Structures Marek Elżanowski, 1995 Mathematical Elasticity Philippe G. Ciarlet, 2022-01-22 In this second book of a three volume set asymptotic methods provide a rigorous mathematical justification of the classical two dimensional linear plate and shallow shell theories Theory of Plates also illustrates how asymptotic methods allow for justification of the Kirchhoff Love theory of nonlinear elastic plates and presents a detailed mathematical analysis of the von Kármán equations An extended preface and extensive bibliography have been added to highlight the progress that has been made since the volume's original publication While each one of the three volumes is self contained together the Mathematical Elasticity set provides the only modern treatise on elasticity introduces contemporary research on three dimensional elasticity the theory of plates and the theory of shells and contains proofs detailed surveys of all mathematical prerequisites and many problems for teaching and self study These classic textbooks are for advanced undergraduates first year graduate students and researchers in pure or applied mathematics or continuum mechanics They are appropriate for courses in mathematical elasticity theory of plates and shells continuum mechanics computational mechanics and applied mathematics in general **A Treatise on the Mathematical Theory of Elasticity** Augustus Edward Hough Love, 1944-01-01 The most complete single volume treatment of classical elasticity this text features extensive editorial apparatus including a historical introduction Topics include stress strain bending torsion gravitational effects and much more 1927 edition A Treatise on the Mathematical Theory of Elasticity Augustus Edward Hough Love, 1892 An indispensable reference work for engineers mathematicians and physicists this book is the most complete and authoritative treatment of classical elasticity in a single volume Beginning with elementary notions of extension simple shear and homogeneous strain the analysis rapidly undertakes a development of types of strain displacements corresponding to a given strain cubical dilatation composition of strains and a general theory of strains A detailed analysis of stress including the stress quadric and uniformly varying stress leads into an exposition of the elasticity of solid bodies Based upon the work energy concept experimental results are examined and the significance of elastic constants in general theory considered Hooke's Law elastic constants methods of determining stress thermo elastic equations and other topics are carefully discussed Back cover Strength of Materials and Theory of Elasticity in 19th Century Italy Danilo Capecchi, Giuseppe Ruta, 2014-11-20 This book examines the theoretical foundations underpinning the field of strength of materials theory of elasticity beginning from the origins of the modern theory of elasticity While the focus is on the advances made within Italy during the nineteenth century these achievements are framed within the overall European context The vital contributions of Italian mathematicians mathematical physicists and engineers in respect of the theory of elasticity continuum mechanics structural mechanics the principle of least work and graphical methods in engineering are carefully explained and discussed The book represents a work of historical research that primarily comprises original contributions and summaries of work

published in journals It is directed at those graduates in engineering but also in architecture who wish to achieve a more global and critical view of the discipline and will also be invaluable for all scholars of the history of mechanics

Mathematical Theory Of Elasticity And Generalized Dynamics Of Quasicrystals And Its Applications Tian-you Fan,Xian-fang Li,Xiao-hong Sun,Ming-jun Huang,Yu-chu Liu,2023-12-27 This book gives a detailed description on mathematical theory of elasticity and generalized dynamics of solid quasicrystals and its applications The Chinese edition of the book Mathematical Theory of Elasticity of Quasicrystals and Its Applications was published by the Beijing Institute of Technology Press in 1999 written by Prof Tian You Fan In this English edition of the book the phonon phason dynamics defect dynamics and hydrodynamics of solid quasicrystals are included so the scope of the book is beyond elasticity Hence the title in this edition is changed to Mathematical Theory of Elasticity and Generalized Dynamics of Quasicrystals and Its Applications This book is the first and only monograph in the scope of quasicrystals since first published in 1999 in China and worldwide In this edition the two dimensional quasicrystals of second kind soft matter quasicrystals and photonic bade gap and application of photonic quasicrystals are added This book combines the mechanical and physical behavior of quasicrystals and mathematical physics which may help graduate students and researchers in the fields of new materials condensed matter physics applied mathematics and engineering science

Elasticity and Plasticity J. N. Goodier,P. G. Hodge, Jr.,2016-04-21 Comprising two classic essays by experts on the mathematical theories of elasticity and plasticity this volume is noteworthy for its contributions by Russian authors and others previously unrecognized in Western literature 1958 edition

Elastic Stresses in Structures Alberto Castigliano,1919

A Treatise on the Mathematical Theory of Elasticity Augustus Edward Hough Love,1920

Qualitative Theory in Structural Mechanics Dajun Wang,Qishen Wang,Beichang (Bert) He,2019-09-14 This book focuses on the qualitative theory in structural mechanics an area that remains underdeveloped The qualitative theory mainly deals with the static deformation and vibrational modes of linear elastic structures and cover subjects such as qualitative properties and the existence of solutions Qualitative properties belong to one type of structure are at the system level and of clear regularity and often result from analytical derivation and logical reasoning As for the existence of solutions it addresses a fundamental issue in structural mechanics and has far reaching implications for engineering applications A better understanding of qualitative properties can assist in both numerical computation and experimental studies It also promotes the development of better dynamic designs for structures At the same time a sound grasp of the existence of solutions and related subjects can aid in quantitative analysis and help researchers establish the theoretical background essential to their work This book is among the few that is dedicated exclusively to the qualitative theory in structural mechanics and systematically introduces the important and challenging area to a wide audience including graduate students in engineering

Elastic Beams and Frames J D Renton,2002-03-01 The book approaches the basic theory of structures from a different perspective from standard pedagogy There is

consideration of work and energy concepts as fundamental and the equations of statics derived from them Likewise these concepts together with that of the characteristic response are used in the derivation of beam theory Plane sections remaining plane is then seen as a particular result for isotropic homogeneous prismatic beams The general theory may still be used where none of these conditions holds and can even be applied to trusses It also corrects errors in the theory of beam shear Special topics discussed include non uniform torsion the exact analysis of shear anisotropy advanced energy methods optimum structures and regular frames Software provided in the book includes seven general purpose programs for analysis of plane space frames with rigid or pinned joints and uses the augmented Gaussian elimination process and dynamic storage techniques Approaches the basic theory of elastic beams and frames from a different perspective from standard pedagogy Provides an introduction to more advanced ideas on the theory of structures and contains much additional material Includes consideration of work and energy concepts as fundamental and the equations of statistics derived from them

Universality of Nonclassical Nonlinearity Pier Paolo Delsanto, 2006-12-13

Variety is perhaps the most amazing attribute of Nature with an almost endless array of different molecules and aggregates and tens of millions of distinct forms of life Yet in spite of this bewildering diversity there are some common patterns henceforth called phenomenological universalities that are found over and over again in completely different contexts A quest for universalities is not only interesting per se but can also yield practical applications If several fields share a common mathematical or conceptual background a cross fertilization among them may lead to quick progress even if ultimately the specific details of any individual application must be considered independently We all know that we live in a nonlinear world although scientists have often tried to linearize it sometimes as a first step towards understanding its complexity often because before the advent of ubiquitous high computational power a linear approximation was the only viable alternative In this book we use the term nonclassical nonlinearity with reference to a particularly intriguing kind of phenomenology which has been extensively investigated in the last decade in the fields of elasticity and soft materials and whose universality has been conjectured Its signatures are hysteresis discrete memory and other effects which in the case of continuum mechanics have been called fast and slow dynamics

A Treatise on the Mathematical Theory of Elasticity A. E. H. Love, 2013-01-03 Originally published in 1927 this is a classic account of the mathematical theory of elasticity by English mathematician A E H Love The text provides a detailed explanation of the topic in its various aspects revealing important relationships with general physics and applications to engineering

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