

Anisotropic Elasticity: Theory and Applications

T. C. T. TING

OXFORD UNIVERSITY PRESS

**Anisotropic Elasticity Theory And Applications Oxford
Engineering Science Series**

Chyanbin Hwu



Anisotropic Elasticity Theory And Applications Oxford Engineering Science Series:

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stress state dependent viscoplastic deformation for arbitrary fibre distributions The constitutive equations are verified with the experiments of a PPGF30 material regarding different stress states and orientations

Anisotropic Elastic Plates
Chyanbin Hwu,2010-05-25 As structural elements anisotropic elastic plates find wide applications in modern technology The plates here are considered to be subjected to not only inplane load but also transverse load In other words both plane and plate bending problems as well as the stretching bending coupling problems are all explained in this book In addition to the introduction of the theory of anisotropic elasticity several important subjects have are discussed in this book such as interfaces cracks holes inclusions contact problems piezoelectric materials thermoelastic problems and boundary element analysis

Engineering Rheology Roger I. Tanner,2000-03-02 This book sets out to provide a guide with examples for those who wish to make predictions about the mechanical and thermal behaviour of non Newtonian materials in engineering and processing technology After an introductory survey of the field and a review of basic continuum mechanics the radical differences between elongational and shear behaviour are shown Two chapters one based on a continuum approach and the other using microstructural approaches lead to useful mathematical descriptions of materials for engineering applications As examples of nearly viscometric and nearly elongational flows there is a discussion of lubrication and related shearing flows and fibre spinning and film blowing respectively A long chapter is devoted to the important new field of computational rheology and this is followed by chapters on stability and turbulence and the all important temperature effects in flow This new edition contains much new material not available in book form elsewhere for example wall slip suspension rheology computational rheology and new results in stability theory

Hygro-Thermo-Magneto-Elastic Theory of Anisotropic Doubly-Curved Shells Francesco Tornabene,2023-10-13 This book aims to present in depth several Higher order Shear Deformation Theories HSDTs by means of a unified approach for studying the Hygro Thermo Magneto Electro Elastic Theory of Anisotropic Doubly Curved Shells In particular a general coupled multifield theory regarding anisotropic shell structures is provided The three dimensional multifield problem is reduced in a two dimensional one following the principles of the Equivalent Single Layer ESL approach and the Equivalent Layer Wise ELW approach setting a proper configuration model According to the adopted configuration assumptions several Higher order Shear Deformation Theories HSDTs are obtained Furthermore the strong and weak formulations of the corresponding governing equations are discussed and illustrated The approach presented in this volume is completely general and represents a valid tool to investigate the physical behavior of many arbitrarily shaped structures An isogeometric mapping procedure is also illustrated to this aim Special attention is given also to advanced and innovative constituents such as Carbon Nanotubes CNTs Variable Angle Tow VAT composites and Functionally Graded Materials FGMs In addition several numerical applications are used to support the theoretical models Accurate efficient and reliable numerical techniques able to approximate both derivatives and integrals are considered which are respectively the Differential Quadrature DQ and Integral Quadrature IQ methods The Theory of Composite Thin Shells is

derived in a simple and intuitive manner from the theory of thick and moderately thick shells First order Shear Deformation Theory or Reissner Mindlin Theory In particular the Kirchhoff Love Theory and the Membrane Theory for composite shells are shown Furthermore the Theory of Composite Arches and Beams is also exposed In particular the equations of the Timoshenko Theory and the Euler Bernoulli Theory are directly deduced from the equations of singly curved shells of translation and of plates

Electromagnetic Waveguides and Transmission Lines F. Olyslager, 1999-05-27 This monograph deals with the theoretical aspects of the circuit modelling of high frequency electromagnetic structures using the Lorentz reciprocity theorem This is the first book to cover the generalization from closed structures to open boundary waveguides and circuit structures The author has developed a new way to represent a general waveguide by transmission lines and was awarded the Microwave Prize of the IEEE for this work The first part of the book discusses the construction of transmission line models for waveguide structures Then the incidence of external electromagnetic waves on high frequency structures is studied and finally the concepts derived in the earlier parts of the book are generalized to reciprocal and non reciprocal anisotropic bi isotropic and bianisotropic materials

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