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Introduction to continuum mechanics / W. Michael Lai ...
Volume II: Continuum Mechanics Volume III: A Brief Introduction to Finite Elasticity Volume IV: Elasticity This is Volume II. My appreciation for mechanics was nucleated by Professors Douglas Amarasekara and Munidasa Ranaweera of the (then) University of Ceylon, and was subsequently shaped and

Introduction to Continuum Mechanics is a recently updated and revised text which is perfect for either introductory courses in an undergraduate engineering curriculum or for a beginning graduate course. Continuum Mechanics studies the response of materials to different loading conditions. The concept of tensors is introduced through the idea of linear transformation in a self-contained chapter, and the interrelation of direct notation, indicial notation, and matrix operations is clearly presented. A wide range of idealized materials are considered through simple static and dynamic problems, and the book contains an abundance of illustrative examples of problems, many with solutions.Serves as either a introductory undergraduate course or a beginning graduate course textbook.Includes many problems with illustrations and answers.

Continuum mechanics studies the response of materials to different loading conditions. The concept of tensors is introduced through the idea of linear transformation in a self-contained chapter, and the interrelation of direct notation, indicial notation and matrix operations is clearly presented. A wide range of idealized materials are considered through simple static and dynamic problems, and the book contains an abundance of illustrative examples and problems, many with solutions. Through the addition of more advanced material (solution of classical elasticity problems, constitutive equations for viscoelastic fluids, and finite deformation theory), this popular introduction to modern continuum mechanics has been fully revised to serve a dual purpose: for introductory courses in undergraduate engineering curricula, and for beginning graduate courses.

This revised text provides a clear introduction to modern continuum mechanics aimed at beginners in the field. The concept of tensors is introduced through the idea of linear transformation. The interrelation of direct notation, indicial notation of cartesian tensors, and matrix operations is clearly presented. A most useful feature of the book is the many worked examples (over 100) which fully illustrate the various aspects of the subject and both the student and lecturer will find the problems and answers (over 250) of inestimable value for teaching and self study. Units are given in both the SI/Metric and Imperial systems where appropriate

Continuum Mechanics is a branch of physical mechanics that describes the macroscopic mechanical behavior of solid or fluid materials considered to be continuously distributed. It is fundamental to the fields of civil, mechanical, chemical and bioengineering. This time-tested text has been used for over 35 years to introduce junior and senior-level undergraduate engineering students, as well as graduate students, to the basic principles of continuum mechanics and their applications to real engineering problems. The text begins with a detailed presentation of the coordinate invariant quantity, the tensor, introduced as a linear transformation. This is then followed by the formulation of the kinematics of deformation, large as well as very small, the description of stresses and the basic laws of continuum mechanics. As applications of these laws, the behaviors of certain material idealizations (models) including the elastic, viscous and viscoelastic materials, are presented. This new edition offers expanded coverage of the subject matter both in terms of details and contents, providing greater flexibility for either a one or two-semester course in either continuum mechanics or elasticity. Although this current edition has expanded the coverage of the subject matter, it nevertheless uses the same approach as that in the earlier editions - that one can cover advanced topics in an elementary way that go from simple to complex, using a wealth of illustrative examples and problems. It is, and will remain, one of the most accessible textbooks on this challenging engineering subject. Significantly expanded coverage of elasticity in Chapter 5, including solutions of some 3-D problems based on the fundamental potential functions approach. New section at the end of Chapter 4 devoted to the integral formulation of the field equations Seven new appendices appear at the end of the relevant chapters to help make each chapter more self-contained Expanded and improved problem sets providing both intellectual challenges and engineering applications

Undergraduate text opens with introductory chapters on matrix algebra, vectors and Cartesian tensors, and an analysis of deformation and stress; succeeding chapters examine laws of conservation of mass, momentum, and energy as well as the formulation of mechanical constitutive equations. 1992 edition.

Provides a rigorous derivation of surface properties such as temperature and deformation using continuum mechanics; Discussion is animated by the authors' decades of experience in experimental mechanics; Includes many technologically motivated problems, solutions and computer solutions

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The aim of this Conference was to become a forum for discussion of both academic and industrial research in those areas of computational engineering science and mechanics which involve and enrich the rational application of computers, numerical methods, and mechanics, in modern technology. The papers presented at this Conference cover the following topics: Solid and Structural Mechanics, Constitutive Modelling, Inelastic and Finite Deformation Response, Transient Analysis, Structural Control and Optimization, Fracture Mechanics and Structural Integrity, Computational Fluid Dynamics, Compressible and Incompressible Flow, Aerodynamics, Transport Phenomena, Heat Transfer and Solidification, Electromagnetic Field, Related Soil Mechanics and MHD, Modern Variational Methods, Biomechanics, and Off-Shore-Structural Mechanics.