



Introduction to Engineering Mechanics: A Continuum Approach (2nd Revised edition)

By Jenn Stroud Rossmann, Clive L. Dym, Lori Bassman

Apple Academic Press Inc. Hardback. Condition: new. BRAND NEW, Introduction to Engineering Mechanics: A Continuum Approach (2nd Revised edition), Jenn Stroud Rossmann, Clive L. Dym, Lori Bassman, Integrated Mechanics Knowledge Essential for Any Engineer Introduction to Engineering Mechanics: A Continuum Approach, Second Edition uses continuum mechanics to showcase the connections between engineering structure and design and between solids and fluids and helps readers learn how to predict the effects of forces, stresses, and strains. The authors' "continuum checklist" provides a framework for a wide variety of problems in solid and fluid mechanics. The essence of continuum mechanics, the internal response of materials to external loading, is often obscured by the complex mathematics of its formulation. By gradually building the formulations from one-dimensional to two- and three-dimensional, the authors help students develop a physical intuition for solid and fluid behavior and for the very interesting behavior of those materials including many biomaterials, between these extremes. This text is an accessible first introduction to the mechanics of all engineering materials, and incorporates a wide range of case studies highlighting the relevance of the technical content in societal, historical, ethical, and global contexts. It also offers a useful perspective for engineers concerned with...



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