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Continuum mechanics is the fundamental basis upon which several graduate courses in engineering science such as elasticity, plasticity, viscoelasticity, and fluid mechanics are founded.

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Book Preface. Preface to the Third Edition. First, a thank you to all the users of the second edition over the past years. We hope that you will find the updates made in the text make it a more valuable introduction for students to continuum mechanics.

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-3-Chapter 1 -- Introduction Continuum mechanics is a theory of the kinematics and dynamics of material bodies in the limit in which matter can be assumed to be infinitely subdividable.

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Continuum mechanics is a branch of mechanics that deals with the analysis of the kinematics and the mechanical behavior of materials modeled as a continuous mass rather than as discrete particles. The French mathematician Augustin-Louis Cauchy was the first to formulate such models in the 19th century.

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Continuum Mechanics Website www.continuummechanics.org is my sister website. It covers all the fundamental aspects of mechanics - stress, strain, principal values, Hooke's Law, von Mises Stress, etc - in the presence of finite deformations and rotations.

Fracture Mechanics

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iii PREFACE The Department of Mechanical Engineering at MIT offers a series of graduate level subjects on the Mechanics of Solids and Structures which include:

Lecture Notes on The Mechanics of Elastic Solids

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