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~~Mechanics Lecture #12~~ Introduction to Continuum Mechanics Lecture #15 Tensors Explained Intuitively: Covariant, Contravariant, Rank ~~What's a Tensor?~~ The stress tensor 01.01. Introduction (Lesson 1) Index/Tensor Notation –  
~~Introduction to The Kronecker Delta~~ What is CONTINUUM MECHANICS? What does CONTINUUM MECHANICS mean? CONTINUUM MECHANICS explanation ~~What Is a Tensor?~~ 02.01. Tensors I ~~Continuum Mechanics -~~  
~~Ch 0 - Lecture 2 - Indicial or (Index) notation~~

Continuum Mechanics - Lecture 02 (ME 550)

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Show less. 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.

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The continuum theory regards matter as indefinitely divisible. Thus, within this theory, one accepts the idea of an infinitesimal volume of materials, referred to as a particle in the continuum, and in every neighborhood of a particle there are always neighboring particles.

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## CHAPTER 2, PART A

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