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stress tensor 01.01. Introduction (~~Lesson~~

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~~The Kronecker Delta~~ What is

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CONTINUUM MECHANICS explanation

~~What Is a Tensor? 02.01. Tensors I~~

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- INTRODUCTION TO CONTINUUM  
MECHANICS

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continuously distributed. It is fundamental to the fields of civil, mechanical, chemical and bioengineering.

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4-1 CHARTER 4 4.1 The state of stress at a certain point in a body is given by:  $\sigma_{ij} = \begin{bmatrix} 12 & 3 & 24 \\ 5 & 350 & i \\ MPa & \sigma_{ij} = \sigma_{ji} & \sigma_{ij} = \sigma_{ji} \end{bmatrix} e_i \cdot e_j$ . On each of the coordinate planes (with normal in  $e_1, e_2, e_3$  directions), (a) what is the normal

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**Solution** Michael Lai, Erhard Krempl, David Rubin. New material has been added to this third edition text for a beginning course in continuum mechanics. Additions include anisotropic elastic solids, finite deformation theory, some solutions of classical elasticity problems, objective tensors and objective time derivatives of tensors, constitutive equations for viscoelastic fluids, and equations in cylindrical and spherical coordinates.

Introduction to continuum mechanics | W Michael Lai ...

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



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**Solution** 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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## CHAPTER 2, PART A

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