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Index/Tensor Notation—Introduction to The Kronecker Delta
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4.1 The state of stress at a certain point in a body is given by: $\sigma = \begin{bmatrix} 12 & 3 & 24 \\ 3 & 24 & 5 \\ 24 & 5 & 350 \end{bmatrix}$ i MPa

= σ_{ij} e_i T. On each of the coordinate planes (with normal in e_i directions), (a) what is the normal

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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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