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$$\begin{bmatrix} 12 & 3 & 24 \\ 5 & . & 350 \\ i & \text{MPa} & \end{bmatrix} = \mathbf{T}$$
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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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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the δ_{ij} is the Kronecker delta symbol, which is defined as $\delta_{ij} = 1$ if $i = j$ and $\delta_{ij} = 0$ if $i \neq j$.

CHAPTER 2, PART A
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