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solid or fluid materials considered to be continuously distributed. It is fundamental to the fields of civil, mechanical, chemical and bioengineering.

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state of stress at a
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certain point in a body is given by:[] 12 3 24 5 . 350 i MPa = T. On each of the coordinate

planes (with normal in ee e12 3,,directions), (a) what is the normal

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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 Page 19/28

equations for viscoelastic fluids, and equations in cylindrical and spherical coordinates.

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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 Page 21/28

examples and problems, many with solutions.

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continuum, and in every neighborhood of a particle there are always neighboring particles.

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