

Problem 2

In this problem, assume to have that an orthonormal basis $\{\mathbf{e}_i\}_{i=1}^3$ is given, and all tensors and vectors are represented by matrices and column matrices in this basis.

(a) A tensor \mathbf{T} is represented by the matrix

$$[\mathbf{T}] = \begin{bmatrix} 2 & -3 & 4 \\ -3 & 2 & 2 \\ -1 & 1 & 1 \end{bmatrix}, \quad (1)$$

in units of MPa. Can this tensor, represented by this matrix, be a stress tensor? Explain in three lines maximum.

(b) Given the stress tensor \mathbf{T} and the direction \mathbf{u} represented by the matrices

$$[\mathbf{T}] = \begin{bmatrix} 2 & -3 & -1 \\ -3 & 2 & 0 \\ -1 & 0 & 1 \end{bmatrix} \text{ MPa}, \quad \{\mathbf{u}\} = \begin{bmatrix} 1 \\ -4 \\ 8 \end{bmatrix}, \quad (2)$$

find the traction (or stress vector) \mathbf{t} in the element of area perpendicular to the vector \mathbf{u} .

(c) For the stress tensor and vector in question (b), find the scalar normal stress σ and the scalar shear stress τ .

Basis Guide To Tensors

Siddappa N.Byrareddy



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