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Represents The Unit Normal (vector) To The Area Element, And T Is The Stress Vector Acting On That Element. The Second-order Tensor T Completely Describes The State Of Stress At A Point. By Convention, T Is The Stress Exerted By The Fluid Into Which N Points On The Fluid Adjoining It. Just As A Vector Has One Invariant (its Length), A Tensor Has Three In 17th, 2024.

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Exercise 1: Tensors And Invariants Tensor/Index

Notation Example: Kinetic Energy Per Unit Volume $\frac{1}{2} \rho \mathbf{u} \cdot \mathbf{u}$

$\frac{1}{2} \rho (u^2 + v^2 + w^2) = \frac{1}{2} \rho \mathbf{u} \cdot \mathbf{u}$ Matrix/Tensor

Operations $(\mathbf{A} \mathbf{B}) = A_{11}b_{11} + A_{22}b_{22} + A_{33}b_{33} = A_{ij}b_{ij}$

$= I_j a_{ij} b_{ij} = A_{ij} b_{ij}$ (scalar, Inner Product) $(\mathbf{A} \mathbf{B})_{ij} = (A_{ik} B_{kj})$

$(\mathbf{A} \mathbf{B})_{ij} = A_{ij} b_j$ (diadic, Tensor Product) $(\mathbf{A} \mathbf{B}) \cdot \mathbf{I} = A_{ij} b_j$

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