

tensor algebra - scalar product

- scalar (inner) product

$$\begin{aligned} A \cdot B &= (A_{ij} \mathbf{e}_i \otimes \mathbf{e}_j) : (B_{kl} \mathbf{e}_k \otimes \mathbf{e}_l) \\ &= A_{ij} B_{kl} \delta_{ik} \mathbf{e}_i \otimes \mathbf{e}_l \\ &= A_{ij} B_{jl} \mathbf{e}_i \otimes \mathbf{e}_l = C_{il} \mathbf{e}_i \otimes \mathbf{e}_l = C \end{aligned}$$

of two second order tensors A and B

- zero and identity $0 \cdot A = A$ $I \cdot A = A$
- properties of scalar product $(A \cdot B)^t = B^t \cdot A^t$

$$\alpha (A \cdot B) = (\alpha A) \cdot B = A \cdot (\alpha B)$$

$$A \cdot (B + C) = A \cdot B + A \cdot C$$

$$(A + B) \cdot C = A \cdot C + B \cdot C$$



Elements Of Tensor Calculus

M Planty



Elements Of Tensor Calculus:

Unveiling the Power of Verbal Beauty: An Psychological Sojourn through **Elements Of Tensor Calculus**

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web it is a kite that rouses sohrab from his withdrawn state of traumatic shock on a spring day in a california park as he helps amir fly a victorious kite using the strategies that hassan and amir had perfected

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