

tensor algebra - scalar product

- scalar (inner) product

$$\begin{aligned} A \cdot B &= (A_{ij} e_i \otimes e_j) : (B_{kl} e_k \otimes e_l) \\ &= A_{ij} B_{kl} \delta_{ik} e_j \otimes e_l \\ &= A_{ij} B_{jl} e_i \otimes e_l = C_{il} e_i \otimes e_l = C \end{aligned}$$

of two second order tensors A and B

- zero and identity $0 \cdot A = 0$ $I \cdot A = A$
- 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

D Sidentop



Elements Of Tensor Calculus:

Unveiling the Magic of Words: A Review of "**Elements Of Tensor Calculus**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Elements Of Tensor Calculus**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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