

Introduction to Continuum Mechanics Solutions manual 4th Edition W Michael Lai

Lai et al., Introduction to Continuum Mechanics

CHAPTER 1, PART A

1.1 Given:

$$\begin{bmatrix} A_{ij} \end{bmatrix} = \begin{bmatrix} 4 & 0 & 3 \\ 0 & 1 & 2 \\ 0 & 0 & 4 \end{bmatrix} \text{ and } \begin{bmatrix} a_i \end{bmatrix} = \begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix}$$

Determine: (a) A_{ij} , (b) $A_{ij}A_{kl}$, (c) $A_{ij}A_{ji}$, (d) $A_{ij}A_{kl}$, (e) $A_{ij}a_j$, (f) $A_{ij}a_ja_i$, (g) $A_{ij}a_ja_i$.

Ans: (a) $A_{ij} = A_{11} = A_{22} = A_{33} = 4$, $A_{12} = A_{21} = 0$, $A_{13} = A_{31} = 3$.

(b) $A_{ij}A_{kl} = A_{11}^2 = A_{22}^2 = A_{33}^2 = 16$, $A_{12}^2 = A_{21}^2 = A_{13}^2 = A_{31}^2 = 9$.

(c) $A_{ij}A_{ji} = A_{11} + A_{22} + A_{33} = 12$.

(d) $A_{ij}A_{kl} = A_{11}A_{22} = 16$.

(e) $A_{ij}a_j = A_{1j}a_j = A_{2j}a_j = A_{3j}a_j$.

$\Rightarrow A_{1j}a_j = A_{11}a_1 + A_{12}a_2 + A_{13}a_3 = A_{2j}a_j = A_{21}a_1 + A_{22}a_2 + A_{23}a_3 = A_{3j}a_j = A_{31}a_1 + A_{32}a_2 + A_{33}a_3$
 $\Rightarrow (4)(1) + (0)(2) + (3)(3) = (0)(1) + (1)(2) + (2)(3) = (0)(1) + (0)(2) + (4)(3) = (3)(1) + (2)(2) + (4)(3) = 19$

(f) $a_ja_i = a_1^2 + a_2^2 + a_3^2 = 1 + 4 + 9 = 14$.

(g) $A_{ij}a_ja_i = A_{1j}a_ja_i = A_{2j}a_ja_i = A_{3j}a_ja_i$.

$\Rightarrow A_{1j}a_ja_i = A_{11}a_1a_1 + A_{12}a_1a_2 + A_{13}a_1a_3 = A_{2j}a_ja_i = A_{21}a_1a_2 + A_{22}a_2a_2 + A_{23}a_2a_3 = A_{3j}a_ja_i = A_{31}a_1a_3 + A_{32}a_2a_3 + A_{33}a_3a_3$
 $\Rightarrow (4)(1)(1) + (0)(1)(2) + (3)(1)(3) = (0)(1)(2) + (1)(2)(2) + (2)(2)(3) = (0)(1)(3) + (0)(2)(3) + (4)(3)(3) = (3)(1)(3) + (2)(2)(3) + (4)(3)(3) = 59$

$\Rightarrow (4)(1 + 2 + 3) + (0)(2 + 3) + (3)(1 + 2 + 3 + 3 + 3) = 4 + 12 + 36 = 52$.

(g) $A_{ij}a_ja_i = A_{1j}a_ja_i = 59$.

1.2 Determine which of these operations have an associated meaning with $a_i = \delta_{ij}a_j$.

(a) $a_j = \delta_{ij}a_j$, (b) $a_j = \delta_{ij}a_i$, (c) $a_j = \delta_{ij}a_j$.

Ans: (a) and (c).

1.3 Given the following matrix:

$$\begin{bmatrix} a_i \end{bmatrix} = \begin{bmatrix} 4 \\ 0 \\ 3 \end{bmatrix}, \begin{bmatrix} A_{ij} \end{bmatrix} = \begin{bmatrix} 2 & 5 & 0 \\ 0 & 5 & 0 \\ 0 & 0 & 4 \end{bmatrix}$$

Determine the representation of the following operations and corresponding matrix operations in the following two notations:

(a) $b_i = A_{ij}a_j$ and $\begin{bmatrix} b_i \end{bmatrix} = \begin{bmatrix} A \end{bmatrix} \begin{bmatrix} a_i \end{bmatrix}$, (b) $c = A_{ij}a_j$ and $c = \begin{bmatrix} A \end{bmatrix}^T \begin{bmatrix} a_i \end{bmatrix}$.

Ans: (a)

$b_i = A_{ij}a_j \Rightarrow b_1 = A_{1j}a_j = A_{11}a_1 + A_{12}a_2 + A_{13}a_3 = (2)(4) + (5)(0) + (0)(3) = (4)(2) = 8$

$b_2 = A_{2j}a_j = A_{21}a_1 + A_{22}a_2 + A_{23}a_3 = 0, \quad b_3 = A_{3j}a_j = A_{31}a_1 + A_{32}a_2 + A_{33}a_3 = 12$.

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Introduction To Continuum Lai Manual:

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