

## CHAPTER 2, PART A

2.1 Given

$$[S_{ij}] = \begin{bmatrix} 1 & 0 & 2 \\ 0 & 1 & 2 \\ 3 & 0 & 3 \end{bmatrix} \text{ and } [a_i] = \begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix}$$

Evaluate (a)  $S_{ii}$ , (b)  $S_{ij}S_{ij}$ , (c)  $S_{ji}S_{ji}$ , (d)  $S_{jk}S_{kj}$ , (e)  $a_m a_m$ , (f)  $S_{mm}a_m a_m$ , (g)  $S_{mm}a_m a_m$ .

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*Ans.* (a)  $S_{ii} = S_{11} + S_{22} + S_{33} = 1 + 1 + 3 = 5$ .

(b)  $S_{ij}S_{ij} = S_{11}^2 + S_{12}^2 + S_{13}^2 + S_{21}^2 + S_{22}^2 + S_{23}^2 + S_{31}^2 + S_{32}^2 + S_{33}^2 =$   
 $1 + 0 + 4 + 0 + 1 + 4 + 9 + 0 + 9 = 28$ .

(c)  $S_{ji}S_{ji} = S_{ij}S_{ij} = 28$ .

(d)  $S_{jk}S_{kj} = S_{1k}S_{k1} + S_{2k}S_{k2} + S_{3k}S_{k3}$   
 $= S_{11}S_{11} + S_{12}S_{21} + S_{13}S_{31} + S_{21}S_{12} + S_{22}S_{22} + S_{23}S_{32} + S_{31}S_{13} + S_{32}S_{23} + S_{33}S_{33}$   
 $= (1)(1) + (0)(0) + (2)(3) + (0)(0) + (1)(1) + (2)(0) + (3)(2) + (0)(2) + (3)(3) = 23$ .

(e)  $a_m a_m = a_1^2 + a_2^2 + a_3^2 = 1 + 4 + 9 = 14$ .

(f)  $S_{mm}a_m a_m = S_{1m}a_m a_m + S_{2m}a_m a_m + S_{3m}a_m a_m =$   
 $S_{11}a_1 a_1 + S_{12}a_1 a_2 + S_{13}a_1 a_3 + S_{21}a_2 a_1 + S_{22}a_2 a_2 + S_{23}a_2 a_3 + S_{31}a_3 a_1 + S_{32}a_3 a_2 + S_{33}a_3 a_3$   
 $= (1)(1)(1) + (0)(1)(2) + (2)(1)(3) + (0)(2)(1) + (1)(2)(2) + (2)(2)(3) + (3)(3)(1)$   
 $+ (0)(3)(2) + (3)(3)(3) = 1 + 0 + 6 + 0 + 4 + 12 + 9 + 0 + 27 = 59$ .

(g)  $S_{mm}a_m a_m = S_{mm}a_m a_m = 59$ .

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2.2 Determine which of these equations have an identical meaning with  $a_i = Q_{ij}a'_j$ .

(a)  $a_p = Q_{pm}a'_m$ , (b)  $a_p = Q_{qp}a'_q$ , (c)  $a_m = a'_m Q_{mm}$ .

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*Ans.* (a) and (c)

2.3 Given the following matrices

$$[a_i] = \begin{bmatrix} 1 \\ 0 \\ 2 \end{bmatrix}, [B_{ij}] = \begin{bmatrix} 2 & 3 & 0 \\ 0 & 5 & 1 \\ 0 & 2 & 1 \end{bmatrix}$$

Demonstrate the equivalence of the subscripted equations and corresponding matrix equations in the following two problems.

(a)  $b_i = B_{ij}a_j$  and  $[b] = [B][a]$ , (b)  $s = B_{ij}a_i a_j$  and  $s = [a]^T [B][a]$

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*Ans.* (a)

$b_1 = B_{ij}a_j \rightarrow b_1 = B_{1j}a_j = B_{11}a_1 + B_{12}a_2 + B_{13}a_3 = (2)(1) + (3)(0) + (0)(2) = 2$

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

# Continuum Lai Solution Manual

**W. Michael Lai, David Rubin, Erhard  
Krempf**



## **Continuum Lai Solution Manual:**

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Structural Dynamic Systems Computational Techniques and Optimization Cornelius T. Leondes, 2024-12-20 Nonlinear structural dynamic systems which are multi degree of freedom systems involve for instance matrix dynamic equilibrium equations which can be of various order up to very high order In these equations the nonlinear quantities can be dependent on time and other terms such as scalar variables which are dependent on time Frequency response and response time derivatives would also of course be involved Nonlinear terms can account for dissipative phenomena and can be due to other physical phenomena In fact many engineering structures involve time dependent properties such as stiffness elements of specific structural components which can change according to the stress level Other examples of dynamic elements of

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