

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_{ij} , B_{ij} , C_{ij} , D_{ij} , E_{ij} , F_{ij} , G_{ij} , H_{ij} , I_{ij} , J_{ij} , K_{ij} , L_{ij} , M_{ij} , N_{ij} , O_{ij} , P_{ij} , Q_{ij} , R_{ij} , S_{ij} , T_{ij} , U_{ij} , V_{ij} , W_{ij} , X_{ij} , Y_{ij} , Z_{ij} .

Ans: (a) $B_{ij} = A_{ij}a_j = B_{11} = B_{22} = B_{33} = 0$, $B_{12} = B_{21} = 0$.

(b) $C_{ij} = A_{ij}a_j = C_{11} = C_{22} = C_{33} = 0$, $C_{12} = C_{21} = C_{13} = C_{31} = C_{23} = C_{32} = 0$.

(c) $D_{ij} = A_{ij}a_j = D_{11} = D_{22} = D_{33} = 0$.

(d) $E_{ij} = A_{ij}a_j = E_{11} = E_{22} = E_{33} = 0$.

(e) $F_{ij} = A_{ij}a_j = F_{11} = F_{22} = F_{33} = 0$.

(f) $G_{ij} = A_{ij}a_j = G_{11} = G_{22} = G_{33} = 0$, $G_{12} = G_{21} = G_{13} = G_{31} = G_{23} = G_{32} = 0$.

(g) $H_{ij} = A_{ij}a_j = H_{11} = H_{22} = H_{33} = 0$, $H_{12} = H_{21} = H_{13} = H_{31} = H_{23} = H_{32} = 0$.

(h) $I_{ij} = A_{ij}a_j = I_{11} = I_{22} = I_{33} = 0$, $I_{12} = I_{21} = I_{13} = I_{31} = I_{23} = I_{32} = 0$.

(i) $J_{ij} = A_{ij}a_j = J_{11} = J_{22} = J_{33} = 0$, $J_{12} = J_{21} = J_{13} = J_{31} = J_{23} = J_{32} = 0$.

(j) $K_{ij} = A_{ij}a_j = K_{11} = K_{22} = K_{33} = 0$, $K_{12} = K_{21} = K_{13} = K_{31} = K_{23} = K_{32} = 0$.

(k) $L_{ij} = A_{ij}a_j = L_{11} = L_{22} = L_{33} = 0$, $L_{12} = L_{21} = L_{13} = L_{31} = L_{23} = L_{32} = 0$.

(l) $M_{ij} = A_{ij}a_j = M_{11} = M_{22} = M_{33} = 0$.

(m) $N_{ij} = A_{ij}a_j = N_{11} = N_{22} = N_{33} = 0$, $N_{12} = N_{21} = N_{13} = N_{31} = N_{23} = N_{32} = 0$.

(n) $O_{ij} = A_{ij}a_j = O_{11} = O_{22} = O_{33} = 0$, $O_{12} = O_{21} = O_{13} = O_{31} = O_{23} = O_{32} = 0$.

(o) $P_{ij} = A_{ij}a_j = P_{11} = P_{22} = P_{33} = 0$, $P_{12} = P_{21} = P_{13} = P_{31} = P_{23} = P_{32} = 0$.

(p) $Q_{ij} = A_{ij}a_j = Q_{11} = Q_{22} = Q_{33} = 0$, $Q_{12} = Q_{21} = Q_{13} = Q_{31} = Q_{23} = Q_{32} = 0$.

(q) $R_{ij} = A_{ij}a_j = R_{11} = R_{22} = R_{33} = 0$, $R_{12} = R_{21} = R_{13} = R_{31} = R_{23} = R_{32} = 0$.

(r) $S_{ij} = A_{ij}a_j = S_{11} = S_{22} = S_{33} = 0$, $S_{12} = S_{21} = S_{13} = S_{31} = S_{23} = S_{32} = 0$.

(s) $T_{ij} = A_{ij}a_j = T_{11} = T_{22} = T_{33} = 0$, $T_{12} = T_{21} = T_{13} = T_{31} = T_{23} = T_{32} = 0$.

(t) $U_{ij} = A_{ij}a_j = U_{11} = U_{22} = U_{33} = 0$, $U_{12} = U_{21} = U_{13} = U_{31} = U_{23} = U_{32} = 0$.

(u) $V_{ij} = A_{ij}a_j = V_{11} = V_{22} = V_{33} = 0$, $V_{12} = V_{21} = V_{13} = V_{31} = V_{23} = V_{32} = 0$.

(v) $W_{ij} = A_{ij}a_j = W_{11} = W_{22} = W_{33} = 0$, $W_{12} = W_{21} = W_{13} = W_{31} = W_{23} = W_{32} = 0$.

(w) $X_{ij} = A_{ij}a_j = X_{11} = X_{22} = X_{33} = 0$, $X_{12} = X_{21} = X_{13} = X_{31} = X_{23} = X_{32} = 0$.

(x) $Y_{ij} = A_{ij}a_j = Y_{11} = Y_{22} = Y_{33} = 0$, $Y_{12} = Y_{21} = Y_{13} = Y_{31} = Y_{23} = Y_{32} = 0$.

(y) $Z_{ij} = A_{ij}a_j = Z_{11} = Z_{22} = Z_{33} = 0$, $Z_{12} = Z_{21} = Z_{13} = Z_{31} = Z_{23} = Z_{32} = 0$.

(z) $a_{ij} = A_{ij}a_j = a_{11} = a_{22} = a_{33} = 0$, $a_{12} = a_{21} = a_{13} = a_{31} = a_{23} = a_{32} = 0$.

(aa) $b_{ij} = A_{ij}a_j = b_{11} = b_{22} = b_{33} = 0$, $b_{12} = b_{21} = b_{13} = b_{31} = b_{23} = b_{32} = 0$.

(ab) $c_{ij} = A_{ij}a_j = c_{11} = c_{22} = c_{33} = 0$, $c_{12} = c_{21} = c_{13} = c_{31} = c_{23} = c_{32} = 0$.

(ac) $d_{ij} = A_{ij}a_j = d_{11} = d_{22} = d_{33} = 0$, $d_{12} = d_{21} = d_{13} = d_{31} = d_{23} = d_{32} = 0$.

(ad) $e_{ij} = A_{ij}a_j = e_{11} = e_{22} = e_{33} = 0$, $e_{12} = e_{21} = e_{13} = e_{31} = e_{23} = e_{32} = 0$.

(ae) $f_{ij} = A_{ij}a_j = f_{11} = f_{22} = f_{33} = 0$, $f_{12} = f_{21} = f_{13} = f_{31} = f_{23} = f_{32} = 0$.

(af) $g_{ij} = A_{ij}a_j = g_{11} = g_{22} = g_{33} = 0$, $g_{12} = g_{21} = g_{13} = g_{31} = g_{23} = g_{32} = 0$.

(ag) $h_{ij} = A_{ij}a_j = h_{11} = h_{22} = h_{33} = 0$, $h_{12} = h_{21} = h_{13} = h_{31} = h_{23} = h_{32} = 0$.

(ah) $i_{ij} = A_{ij}a_j = i_{11} = i_{22} = i_{33} = 0$, $i_{12} = i_{21} = i_{13} = i_{31} = i_{23} = i_{32} = 0$.

(ai) $j_{ij} = A_{ij}a_j = j_{11} = j_{22} = j_{33} = 0$, $j_{12} = j_{21} = j_{13} = j_{31} = j_{23} = j_{32} = 0$.

(aj) $k_{ij} = A_{ij}a_j = k_{11} = k_{22} = k_{33} = 0$, $k_{12} = k_{21} = k_{13} = k_{31} = k_{23} = k_{32} = 0$.

(ak) $l_{ij} = A_{ij}a_j = l_{11} = l_{22} = l_{33} = 0$, $l_{12} = l_{21} = l_{13} = l_{31} = l_{23} = l_{32} = 0$.

(al) $m_{ij} = A_{ij}a_j = m_{11} = m_{22} = m_{33} = 0$, $m_{12} = m_{21} = m_{13} = m_{31} = m_{23} = m_{32} = 0$.

(am) $n_{ij} = A_{ij}a_j = n_{11} = n_{22} = n_{33} = 0$, $n_{12} = n_{21} = n_{13} = n_{31} = n_{23} = n_{32} = 0$.

(an) $o_{ij} = A_{ij}a_j = o_{11} = o_{22} = o_{33} = 0$, $o_{12} = o_{21} = o_{13} = o_{31} = o_{23} = o_{32} = 0$.

(ao) $p_{ij} = A_{ij}a_j = p_{11} = p_{22} = p_{33} = 0$, $p_{12} = p_{21} = p_{13} = p_{31} = p_{23} = p_{32} = 0$.

(ap) $q_{ij} = A_{ij}a_j = q_{11} = q_{22} = q_{33} = 0$, $q_{12} = q_{21} = q_{13} = q_{31} = q_{23} = q_{32} = 0$.

(aq) $r_{ij} = A_{ij}a_j = r_{11} = r_{22} = r_{33} = 0$, $r_{12} = r_{21} = r_{13} = r_{31} = r_{23} = r_{32} = 0$.

(ar) $s_{ij} = A_{ij}a_j = s_{11} = s_{22} = s_{33} = 0$, $s_{12} = s_{21} = s_{13} = s_{31} = s_{23} = s_{32} = 0$.

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Christian Drosten



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