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Mechanics for
Engineers $B_{kk} =$
 $1/6 A_{kk}$; $B_{ij} =$
 $1/3 A_{ij} - 1/18$
 A_{kk} Solution
Taking the trace
of A_{ij} gives $A_{ii} =$
 $1/6 A_{kk} + 3B_{kk}$

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 $i, j = 1, 2, 3$ $k, l = 1, 2, 3$ $m, n = 1, 2, 3$
 δ_{ij} since i and j
are dummy
indices. This...

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$$u_1 = 5(3e^{-1} - e^{-2} - 2e^{-3}) \quad u_2 =$$

$$1.5(-e^{-1} + 2e^{-2} -$$

$$e^{-3}) \quad u_3 = 1$$

$$5(-e^{-1} + 2e^{-2} + 4e^{-3})$$

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$u_1 = 5(3e^{-1} -$

$e^{-2} - 2e^{-3})$ $u_2 =$

$1.5(-e^{-1} + 2e^{-2})$

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$$2(-e^3)u_3 = 1$$
$$5(-e^{-1} + 2e^{-2} + 4e^{-3})$$

Solution For the
bases, we have

$$u_1 = u_1 \quad u_2 \quad u_3$$

$$[u_1; u_2; u_3] =$$

$$1; \quad u_2 \quad u_3$$

$$u_1 \quad [u_1; u_2; u_3] = 1; \quad u_3$$

$$u_3 = u_3 \quad u_1 \quad u_2 \quad [u_1; u_2; u_3] = 1$$

$$u_1 \quad u_2 \quad [u_1; u_2; u_3] = 1$$

$$u_3] = 1$$

since the triple

scalar product

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is insensitive
to the order of
the operations.

Now $u^2 u_1 = u^2 u$

$2 u^3 [u_1; u_2; u$

$3] = 0$ since u^2

$2 u^2 u^3 = 0$ from

Pb 2.1.

Similarly, u

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basis an
arbitrary vector
 v is given in
component form

$$\begin{aligned} & \text{by } v^1 e^1 + v^2 e^2 \\ & + v^3 e^3 = v = \\ & v^i e^i \quad \text{for } i=1, 2, 3 \end{aligned}$$

(2.2)

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$v^3 e^3 = v^2 e^2 + v^1 e^1$

$v^1 e^1 = v^2 e^2 + v^3 e^3$

$v^2 e^2 = v^1 e^1 + v^3 e^3$ (a)

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Unit vectors in
the coordinate
directions x_1 ,
 x_2 and x_3 .

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