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$$A_1 = 0.25 \text{ in}^2$$
 $A_2 = 0.18$

$$K_2 = \frac{(0.1875 + 0.125)(10.4 \times 10^5)}{2(5)} = 325,000 \text{ in}$$

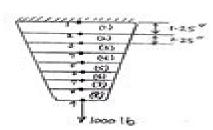
$$\begin{bmatrix}
455 & -455 \\
-455 & 455+325 & -325 \\
-325 & 325
\end{bmatrix}
\begin{bmatrix}
u_1 \\
u_2 \\
u_3
\end{bmatrix} = \begin{cases}
0 \\
1000
\end{cases}$$

$$u_1 = 0, \quad u_2 = 0.002197 \text{ in} \quad u_3 = 0.005274 \text{ in}$$

(b)

$$A_1 = 0.25 \text{ in}^2$$

 $A_2 = 0.234575 \text{ in}^3$



4.80

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Thirumalaisamy P. Velavancorresponding

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