

$$\left. \begin{array}{l} F_{11} = 0 \\ F_{12} = 0.1414 \\ F_{13} = 0.8586 \end{array} \right\} \text{summation}$$

$$A_1 F_{12} = A_2 F_{21}$$

$$\Rightarrow F_{12} = \frac{A_2}{A_1} F_{21} = \frac{\pi D_2 L}{L W} (0.45)$$

b)

