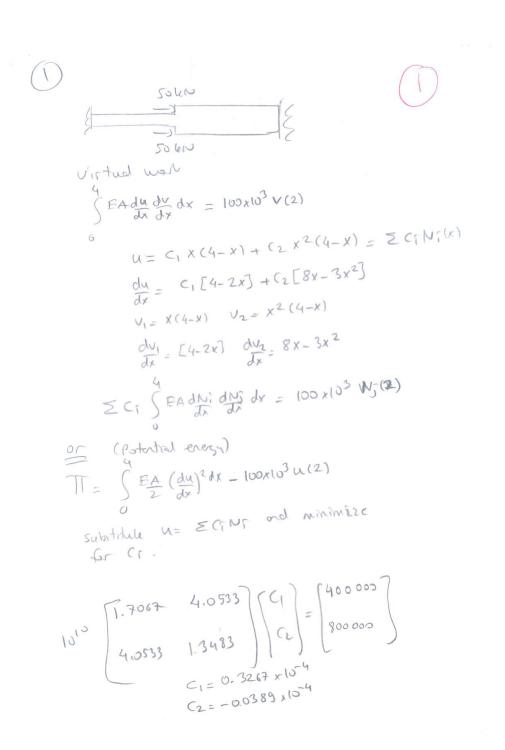
CE 425

FALL 2014

HOMEWORK #6 SOLUTIONS



Strugth of Mat dolution. $\frac{100 \times 10^{3} \times 2}{4 \times 10^{8}} = R \left[\frac{2}{4 \times 10^{8}} + \frac{2}{12 \times 10^{8}} \right]$ R = 75000 N $25 klos^{3} \times 2 = 1.25 \times 15^{4} \left(\text{disp of the mid} \right)$ $4 \times 10^{3} = 1.25 \times 15^{4} \left(\text{disp of the mid} \right)$

$$T = \int_{0}^{2} \frac{GJ}{2} \frac{d\phi}{dx} dx - 1000x \phi(2)$$

$$\frac{\sqrt{1}}{3} \frac{dy}{dx} \frac{dy}{dx} dx = 1000 \text{ V(2)}$$

One paramete volutien, tus paramete solution

$$C_1 = 0.941 \times 10^{-3}$$
 $C_2 = 0.23451 \cdot 10^{-3}$
 $C_2 = 0.23451 \cdot 10^{-3}$

exact solution

$$\frac{1}{G(x)} \frac{1}{G(x)} - \frac{2}{G(x)} = \int_{0}^{2} \frac{1}{G^{2}} dx = 2.8242x | 0^{-6}$$

$$\frac{1}{G(x)} \frac{1}{G(x)} = \int_{0}^{2} \frac{1}{G(x)} dx = 2.8242x | 0^{-6}$$

$$\frac{1}{G(x)} \frac{1}{G(x)} = \int_{0}^{2} \frac{1}{G(x)} dx = 2.8242x | 0^{-6}$$

$$\frac{1}{G(x)} \frac{1}{G(x)} = \int_{0}^{2} \frac{1}{G(x)} dx = 2.8242x | 0^{-6}$$

$$TI = \int_{0}^{4} \frac{1}{2} \left(\frac{d^{2}y}{dx^{2}}\right)^{2} dx + \int_{0}^{4} wy dx + ky(L)^{2}$$

$$\int_{0}^{4} \frac{d^{2}y}{dx^{2}} dx + \int_{0}^{4} wy dx + ky(L)^{2}$$

$$\int_{0}^{4} \frac{d^{2}y}{dx^{2}} dx + ky(L) V(L) = -\int_{0}^{4} wv dx$$

$$\int_{0}^{4} \frac{d^{2}y}{dx^{2}} dx + ky(L) V(L) = -\int_{0}^{4} wv dx$$

$$\int_{0}^{4} \frac{d^{2}y}{dx^{2}} dx + ky(L) V(L) = -\int_{0}^{4} wv dx$$

$$\int_{0}^{4} \frac{d^{2}y}{dx^{2}} dx + ky(L) V(L) = -\int_{0}^{4} wv dx$$

$$\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} = \frac{1$$

$$92 = -\frac{3 \times 4^{4} \times 2000}{8 \times 10^{6} \times 4^{3} + 24 \times 200 \times 10^{3} \times 0.05^{4}} = -2.985 \times 10^{3}$$

$$F_{5} = 2985 N$$

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