2.1 Solution

(a) Determine the equation of motion of the mass m in Fig. 1.

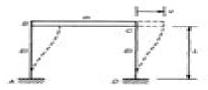
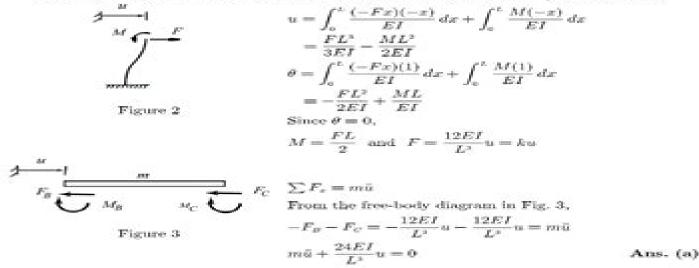


Figure 1

To determine the stiffness of the columns, we can use the unit dummy load method.



(b) How would the equation of motion differ if the left-hand column had a stiffness 2EI, with no other changes to the structure?

$$-F_{B} - F_{C} = -\frac{12(2EI)}{L^{3}}u - \frac{12EI}{L^{3}}u = m\bar{u}$$

 $m\bar{u} + \frac{36EI}{L^{3}}u = 0$ Ans. (b)

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