

2.1 Solution

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

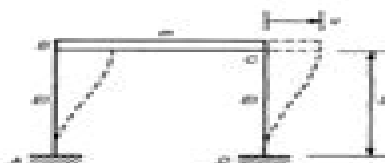


Figure 1

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



Figure 2

$$\begin{aligned} u &= \int_0^L \frac{(-Fx)(-x)}{EI} dx + \int_0^L \frac{M(-x)}{EI} dx \\ &= \frac{FL^3}{3EI} - \frac{ML^2}{2EI} \\ \theta &= \int_0^L \frac{(-Fx)(1)}{EI} dx + \int_0^L \frac{M(1)}{EI} dx \\ &= -\frac{FL^2}{2EI} + \frac{ML}{EI} \end{aligned}$$

Since $\theta = 0$,

$$M = \frac{FL}{2} \quad \text{and} \quad F = \frac{12EI}{L^2} u = ku$$

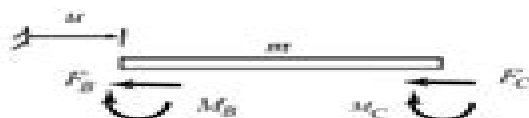


Figure 3

$$\sum F_x = m\ddot{u}$$

From the free-body diagram in Fig. 3,

$$-F_B - F_C = -\frac{12EI}{L^2} u - \frac{12EI}{L^2} u = m\ddot{u}$$

$$m\ddot{u} + \frac{24EI}{L^2} u = 0$$

Ans. (a)

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

$$-F_B - F_C = -\frac{12(2EI)}{L^2} u - \frac{12EI}{L^2} u = m\ddot{u}$$

$$m\ddot{u} + \frac{36EI}{L^2} u = 0$$

Ans. (b)

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Scientific and Technical Aerospace Reports ,1989 *Applied Mechanics Reviews* ,1989 **Computational Engineering Using Metaphors from Nature** B. H. V. Topping,2000 Contains a selection of papers presented at The Fifth International Conference on Computational Structures Technology and The Second International Conference on Engineering Computational Technology held at Leuven Belgium from 6 8 September 2000 **Finite Element Bibliography** Gerard De Vries,1976-12 Thjs bibliography had its inception in 1967 when the compilers first attempted a comprehensive cov erage of the finite element literature using both manual and computer based retrieval Initially the data base was stored on a card index but this was subsequently transferred to punched cards and magnetic tape Computer processing was adopted at an early stage to derive the three index formats from the data base Over the subsequent years several versions of the bibliography were produced with two of these being made available in a report form to other researchers From the widespread interest in these documents it became evident that there was a need for a commercially available comprehensive bibliography in this area A major effort was undertaken to revise update and extend the data base resulting in this present volume The bibliography covers the period 1956 1975 primarily although some earlier publications of histori cal interest are included The citations are not restricted to the English language and documents are listed in many languages and from diverse places of origin All publication formats were accepted so that references will be found to books monographs journal papers and articles theses dissertations reports surveys and the like *A Collection of Technical Papers: Structures* ,1990

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