

2.1 Solution

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

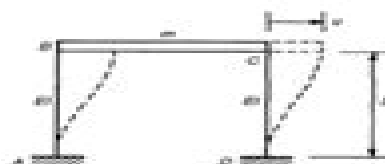


Figure 1

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 $\theta = 0$,

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

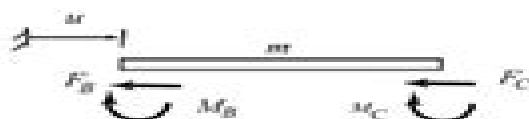


Figure 3

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

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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Table of Contents Structural Dynamics Solutions Manual

1. Understanding the eBook Structural Dynamics Solutions Manual
 - The Rise of Digital Reading Structural Dynamics Solutions Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Structural Dynamics Solutions Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Structural Dynamics Solutions Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Structural Dynamics Solutions Manual
 - Personalized Recommendations
 - Structural Dynamics Solutions Manual User Reviews and Ratings
 - Structural Dynamics Solutions Manual and Bestseller Lists
5. Accessing Structural Dynamics Solutions Manual Free and Paid eBooks

- Structural Dynamics Solutions Manual Public Domain eBooks
- Structural Dynamics Solutions Manual eBook Subscription Services
- Structural Dynamics Solutions Manual Budget-Friendly Options
- 6. Navigating Structural Dynamics Solutions Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Structural Dynamics Solutions Manual Compatibility with Devices
 - Structural Dynamics Solutions Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Structural Dynamics Solutions Manual
 - Highlighting and Note-Taking Structural Dynamics Solutions Manual
 - Interactive Elements Structural Dynamics Solutions Manual
- 8. Staying Engaged with Structural Dynamics Solutions Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Structural Dynamics Solutions Manual
- 9. Balancing eBooks and Physical Books Structural Dynamics Solutions Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Structural Dynamics Solutions Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Structural Dynamics Solutions Manual
 - Setting Reading Goals Structural Dynamics Solutions Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Structural Dynamics Solutions Manual
 - Fact-Checking eBook Content of Structural Dynamics Solutions Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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