

particle where the equivalent spring is to be attached is equal to the potential energy of a spring of equivalent stiffness placed at that location.

2.22 The FBD is shown at an arbitrary instant.

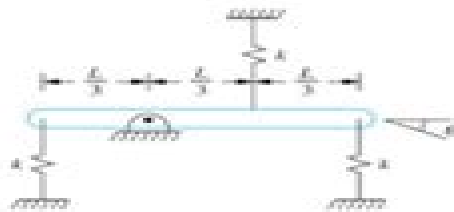


FIGURE 2P.22



2.23 At an arbitrary instant the upper bar has rotated through an angle θ , measured positive clockwise. The lower bar has an angular displacement ϕ , measure counterclockwise. The displacements of the particles must be the same where the rigid bar is attached, $\frac{l}{2}\theta = \frac{5l}{6}\phi$ or $\phi = \frac{3}{5}\theta$. The FBDs are shown at an arbitrary instant.

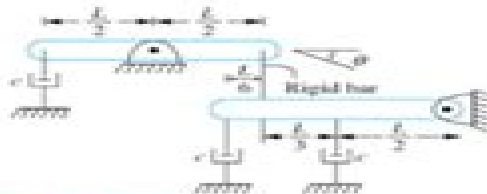
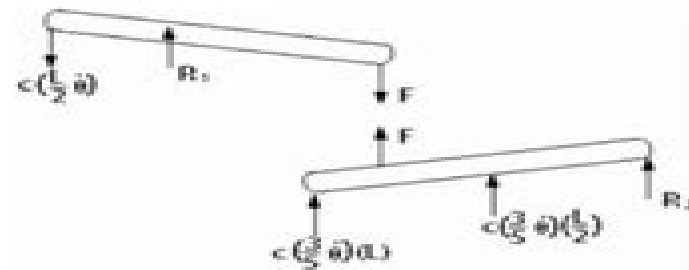


FIGURE 2P.23



2.24 The equivalent systems method is used to derive the differential equation for linear SDOF systems. It can be used to model a linear SDOF system with an equivalent mass-spring-viscous damper model. Using a linear displacement as the generalized coordinate the equivalent mass, the equivalent stiffness, the equivalent damping viscous damping coefficient and the equivalent force are determined using the kinetic energy, potential energy, energy dissipated by viscous dampers and the work done by non-conservative forces.

2.25 Static spring forces not drawn on the FBD of external forces when they cancel with a source of potential energy for a linear system and the generalized coordinate is measured from the system's equilibrium position.

2.26 No, the equivalent systems method cannot be used for a nonlinear system.

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 - The Rise of Digital Reading Fundamentals Manual Solution Vibrations
 - Advantages of eBooks Over Traditional Books
2. Identifying Fundamentals Manual Solution Vibrations
 - 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 Fundamentals Manual Solution Vibrations
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fundamentals Manual Solution Vibrations
 - Personalized Recommendations
 - Fundamentals Manual Solution Vibrations User Reviews and Ratings
 - Fundamentals Manual Solution Vibrations and Bestseller Lists
5. Accessing Fundamentals Manual Solution Vibrations Free and Paid eBooks
 - Fundamentals Manual Solution Vibrations Public Domain eBooks
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 - Fundamentals Manual Solution Vibrations Enhanced eBook Features
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 - Adjustable Fonts and Text Sizes of Fundamentals Manual Solution Vibrations
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 - Interactive Elements Fundamentals Manual Solution Vibrations
- 8. Staying Engaged with Fundamentals Manual Solution Vibrations
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fundamentals Manual Solution Vibrations
- 9. Balancing eBooks and Physical Books Fundamentals Manual Solution Vibrations
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fundamentals Manual Solution Vibrations
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Fundamentals Manual Solution Vibrations
 - Setting Reading Goals Fundamentals Manual Solution Vibrations
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Fundamentals Manual Solution Vibrations
 - Fact-Checking eBook Content of Fundamentals Manual Solution Vibrations
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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 - Interactive and Gamified eBooks

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