

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.

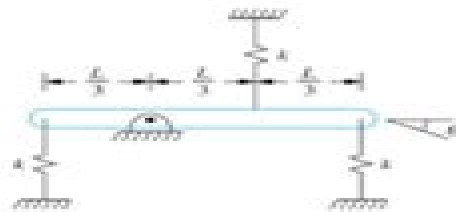


FIGURE 2P.22



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.

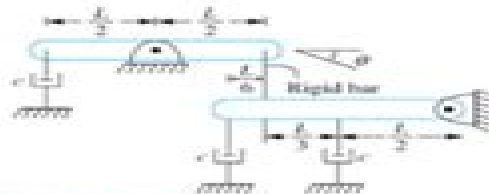
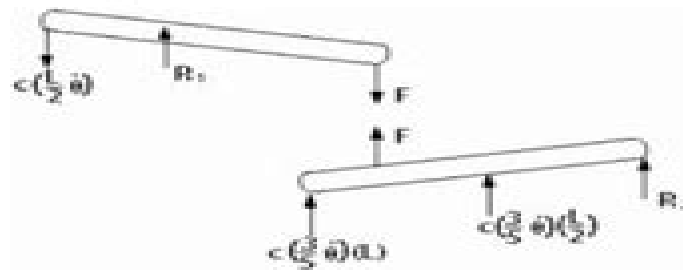


FIGURE 2P.23



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.

Fundamentals Vibrations Graham Kelly Solution Manual

**Haym Benaroya, Mark Nagurka, Seon
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