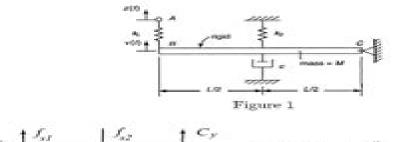
2.3 Solution

(a) Determine the equation of motion of the beam in Fig. 1 in terms of tip displacement v.



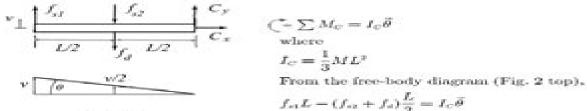


Figure 2

The constitutive relationships of the linear springs and the linear dashpot are:

$$f_{si} = k_i[z(t) - v], f_{si} = k_i \frac{v}{2}, f_s = c \frac{\dot{v}}{2}$$

From the deformation diagram (Fig. 2 bottom) and kinematics, for small θ ,

$$v = L\theta$$
, or $\theta = \frac{v}{L}$

Combining the above equations, we get

$$k_1[z(t) - v]L - \left(k_2\frac{v}{2} + c\frac{\dot{v}}{2}\right)\frac{L}{2} = \frac{1}{3}ML^2\left(\frac{\ddot{v}}{L}\right)$$

Finally, the equation of motion of the beam in terms of displacement v is

$$4M\ddot{v} + 3c\dot{v} + (12k_1 + 3k_2)v = 12k_1z(t)$$
 Ans. (a)

(b) Determine the equation of motion of the beam in terms of the spring force f_{*1}.

In the above answer to Part (a), substitute the force-deformation of spring 1 in the form

$$v = z(t) - \frac{f_{ii}}{k_i}$$

Then, the equation of motion for f_{st} is

$$4M\tilde{f}_{s1} + 3c\tilde{f}_{s1} + (12k_1 + 3k_2)f_{s1} = k_1(4M\tilde{z} + 3c\tilde{z} + 3k_2\tilde{z})$$
 Ans. (b)

Although the left-hand sides of these two equations of motion have exactly the same form, the right-hand side of Ans. (b) is more complicated.

Fundamentals Of Structural Dynamics

Léo Pomar

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Busby, George H. Staab, 2017-08-15 Structural Dynamics Concepts and Applications focuses on dynamic problems in mechanical civil and aerospace engineering through the equations of motion The text explains structural response from dynamic loads and the modeling and calculation of dynamic responses in structural systems A range of applications is included from various engineering disciplines Coverage progresses consistently from basic to advanced with emphasis placed on analytical methods and numerical solution techniques Stress analysis is discussed and MATLAB applications are integrated throughout A solutions manual and figure slides for classroom projection are available for instructors

<u>Dynamics of Coupled Structures, Volume 1</u> Matt Allen, Randy Mayes, Daniel Rixen, 2014-04-16 This first volume of eight from the IMAC XXXII Conference brings together contributions to this important area of research and engineering The collection presents early findings and case studies on fundamental and applied aspects of Structural Dynamics including papers on Linear Systems Substructure Modelling Adaptive Structures Experimental Techniques Analytical Methods Damage Detection Damping of Materials Members Modal Parameter Identification Modal Testing Methods System Identification Active Control Modal Parameter Estimation Processing Modal Data Structural Dynamics Harry Grundmann, Gerhart I. Schuëller, 2002 The proceedings contain contributions presented by authors from more than 30 countries at EURODYN 2002 The proceedings show recent scientific developments as well as practical applications they cover the fields of theory of vibrations nonlinear vibrations stochastic dynamics vibrations of structured elements wave propagation and structure borne sound including questions of fatigue and damping Emphasis is laid on vibrations of bridges buildings railway structures as well as on the fields of wind and earthquake engineering repectively Enriched by a number of keynote lectures and organized sessions the two volumes of the proceedings present an overview of the state of the art of the whole field of structural dynamics and the tendencies ot its further development Structural Analysis Exam Study Guide cybellium, 2024-10-26 Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT Al

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