

1 Free Vibration of Single Degree-of-freedom Systems

1.1 Solved Problems

Problem 1:

For the mechanical system shown to the right, the uniform rigid bar has mass m and pinned at point O . For this system:

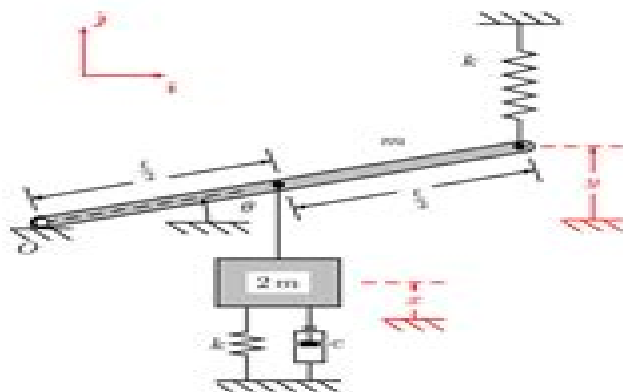
- find the equations of motion;
- Identify the damping ratio and natural frequency in terms of the parameters m , c , k , and ℓ .
- For:

$$m = 1.50\text{kg}, \quad \ell = 45\text{cm}, \\ c = 0.125\text{N/(m/s)}, \quad k = 250\text{N/m},$$

find the angular displacement of the bar $\theta(t)$ for the following initial conditions:

$$\theta(0) = 0, \quad \dot{\theta}(0) = 10\text{rad/s}.$$

Assume that in the horizontal position the system is in static equilibrium and that all angles remain small.



Solution:

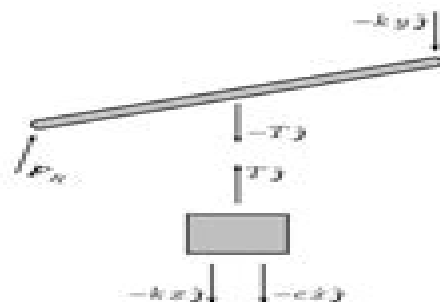
- In addition to the coordinate θ identified in the original figure, we also define x and y as the displacement of the block and end of the bar respectively. The directions $\hat{i}$ and $\hat{j}$ are defined as shown in the figure.

A free body diagram for this system is shown to the right. Note that the tension in the cable between the bar and the block is unknown and represented with T while the reaction force $\mathbf{F}_R$ is included, although both its magnitude and direction are unspecified. In terms of the identified coordinates, the angular acceleration of the bar α_θ and the linear acceleration of the block $\mathbf{a}_c$ are

$$\alpha_\theta = \ddot{\theta} \hat{k}, \quad \mathbf{a}_c = \ddot{x} \hat{i}.$$

We can also relate the identified coordinates as

$$x = \frac{\ell}{2} \theta, \quad y = \ell \theta.$$



The equations of motion for this system can be obtained with linear momentum balance applied to the block and angular momentum balance about O on the bar. These can be

Mechanical Vibration Solved Problems

RJ Alexander



Mechanical Vibration Solved Problems:

Unveiling the Power of Verbal Art: An Mental Sojourn through **Mechanical Vibration Solved Problems**

In some sort of inundated with monitors and the cacophony of fast interaction, the profound power and emotional resonance of verbal artistry usually disappear in to obscurity, eclipsed by the continuous barrage of sound and distractions. Yet, nestled within the musical pages of **Mechanical Vibration Solved Problems**, a captivating work of fictional brilliance that pulses with raw thoughts, lies an wonderful trip waiting to be embarked upon. Composed by a virtuoso wordsmith, this exciting opus instructions viewers on an emotional odyssey, gently revealing the latent possible and profound influence embedded within the elaborate internet of language. Within the heart-wrenching expanse of this evocative examination, we shall embark upon an introspective exploration of the book is central subjects, dissect their captivating writing fashion, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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