

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:

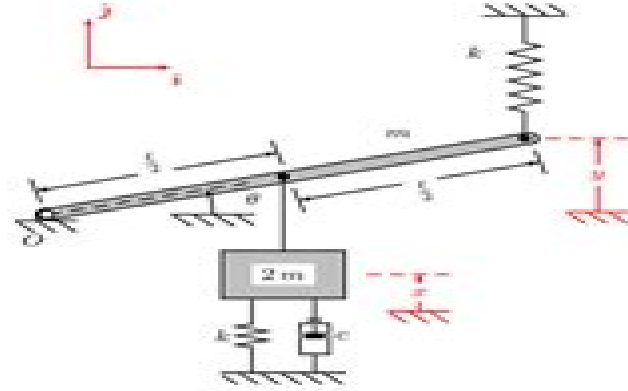
- find the equations of motion;
- Identify the damping ratio and natural frequency in terms of the parameters m , c , k , and ℓ .
- For:

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

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

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

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



Solution:

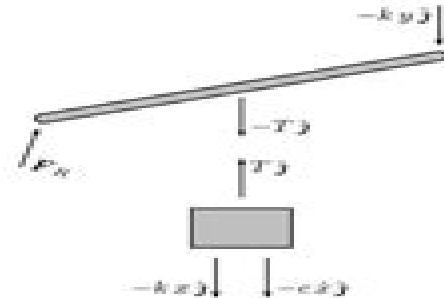
- In addition to the coordinate θ identified in the original figure, we also define x and y as the displacement of the block and end of the bar respectively. The directions $\hat{i}$ and $\hat{j}$ are defined as shown in the figure.

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 $\mathbf{a}_G$ are

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

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

M Lipman



Mechanical Vibration Solved Problems:

The book delves into Mechanical Vibration Solved Problems. Mechanical Vibration Solved Problems is a vital topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Mechanical Vibration Solved Problems, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Mechanical Vibration Solved Problems
- Chapter 2: Essential Elements of Mechanical Vibration Solved Problems
- Chapter 3: Mechanical Vibration Solved Problems in Everyday Life
- Chapter 4: Mechanical Vibration Solved Problems in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Mechanical Vibration Solved Problems. The first chapter will explore what Mechanical Vibration Solved Problems is, why Mechanical Vibration Solved Problems is vital, and how to effectively learn about Mechanical Vibration Solved Problems.
3. In chapter 2, the author will delve into the foundational concepts of Mechanical Vibration Solved Problems. The second chapter will elucidate the essential principles that must be understood to grasp Mechanical Vibration Solved Problems in its entirety.
4. In chapter 3, the author will examine the practical applications of Mechanical Vibration Solved Problems in daily life. The third chapter will showcase real-world examples of how Mechanical Vibration Solved Problems can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Mechanical Vibration Solved Problems in specific contexts. This chapter will explore how Mechanical Vibration Solved Problems is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Mechanical Vibration Solved Problems. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Mechanical Vibration Solved Problems.

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