

HELICAL SPRING - OSCILLATION METHOD

Aim

To determine the spring constant of a spring by measuring the time period of oscillations for known masses.

Apparatus

Helical spring, weight hanger, slotted weights, stop watch, etc.

Theory

The period of oscillation of a spring

$$T = 2\pi \sqrt{\frac{M}{k}},$$

where 'M' is the mass suspended and 'k' is the spring constant.

$$\therefore k = 4\pi^2 \left(\frac{M}{T^2} \right)$$

Procedure

The helical spring is suspended vertically from a rigid stand. The pointer and weight hanger are attached at the free end of the spring (see fig. 1). The weight of the hanger should be enough to keep the spring vertical and sufficiently stretched.

Let the mass attached to the spring be M kg. The weight hanger is pulled downwards through a small distance and left free. Time taken for 20 oscillations is noted using a stopwatch as 't'. The period of oscillation is $T = \frac{t}{20}$ sec. Then $\frac{M}{T^2}$ is calculated.

The experiment is repeated for different values of 'M' by adding weights to the hanger. Average value of $\frac{M}{T^2}$ is calculated. The spring constant 'k' is calculated using the equation

$$k = 4\pi^2 \left(\frac{M}{T^2} \right)$$

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Table of Contents Sgmicroecon Thery Concconn

1. Understanding the eBook Sgmicroecon Thery Concconn
 - The Rise of Digital Reading Sgmicroecon Thery Concconn
 - Advantages of eBooks Over Traditional Books
2. Identifying Sgmicroecon Thery Concconn
 - 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 Sgmicroecon Thery Concconn
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sgmicroecon Thery Concconn
 - Personalized Recommendations
 - Sgmicroecon Thery Concconn User Reviews and Ratings
 - Sgmicroecon Thery Concconn and Bestseller Lists

5. Accessing Sgmicroecon Thery Concconn Free and Paid eBooks
 - Sgmicroecon Thery Concconn Public Domain eBooks
 - Sgmicroecon Thery Concconn eBook Subscription Services
 - Sgmicroecon Thery Concconn Budget-Friendly Options
6. Navigating Sgmicroecon Thery Concconn eBook Formats
 - ePub, PDF, MOBI, and More
 - Sgmicroecon Thery Concconn Compatibility with Devices
 - Sgmicroecon Thery Concconn Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sgmicroecon Thery Concconn
 - Highlighting and Note-Taking Sgmicroecon Thery Concconn
 - Interactive Elements Sgmicroecon Thery Concconn
8. Staying Engaged with Sgmicroecon Thery Concconn
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sgmicroecon Thery Concconn
9. Balancing eBooks and Physical Books Sgmicroecon Thery Concconn
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sgmicroecon Thery Concconn
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Sgmicroecon Thery Concconn
 - Setting Reading Goals Sgmicroecon Thery Concconn
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Sgmicroecon Thery Concconn
 - Fact-Checking eBook Content of Sgmicroecon Thery Concconn
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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