



Project-2

➤ AIM OF THE PROJECT

To study the spring constant of a helical spring from its load-extension graph.

➤ APPARATUS AND MATERIALS

Helical spring with a pointer attached at its lower end and a hook/ring for suspending a hanger; a rigid support/clamp stand; five or six slotted masses (known) for hanger; a metre scale.

➤ PRINCIPLE

- When an external force is applied to a body, the shape of the body changes or deformation occurs in the body. Restoring forces (having magnitude equal to the applied force) are developed within the body which tend to oppose this change. On removing the applied force, the body regains its original shape.
- For small changes in length (or shape/dimensions) of a body (wire), within the elastic limit, the magnitude of the elongation or extension is directly proportional to the applied force (Hooke's law).

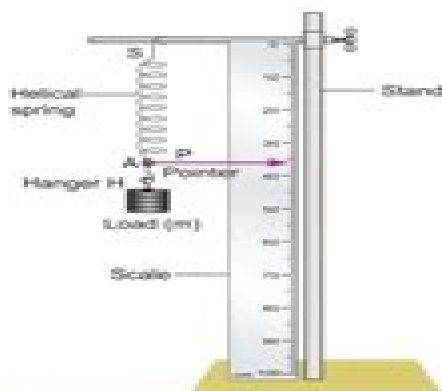


Fig. 2.1 Measurement of extension of a helical spring due to load

- Following Hooke's law, the spring constant (or force constant) of a spring is given by

$$\text{Spring constant, } K = \frac{\text{Restoring force, } F}{\text{Extension, } x}$$

- Thus, the spring constant is the restoring force per unit extension in the spring. Its value is determined by the elastic properties of the spring. A given load is attached to the free end of the spring which is suspended from a rigid point support (a nail fixed to a wall). A load (slotted weight) is placed in the hanger and the spring gets extended/elongated due to the applied force. By measuring the extensions, produced by the forces applied by different loads (slotted mass) in the spring and plotting the load (force) extension graph, the spring constant of the spring can be determined.

➤ PROCEDURE

1. Suspend the helical spring, SA, having a pointer, P, at its lower free end, A, freely from a rigid point support, as shown in Fig. 2.1.
2. Set the metre scale close to the spring vertically. Take care that the pointer moves freely over the scale without touching it and the tip of the pointer is in front of the graduations on the scale.

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Table of Contents Lab Manual For Physics For Class 11

1. Understanding the eBook Lab Manual For Physics For Class 11
 - The Rise of Digital Reading Lab Manual For Physics For Class 11
 - Advantages of eBooks Over Traditional Books
2. Identifying Lab Manual For Physics For Class 11
 - 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 Lab Manual For Physics For Class 11
 - User-Friendly Interface
4. Exploring eBook Recommendations from Lab Manual For Physics For Class 11

- Personalized Recommendations
 - Lab Manual For Physics For Class 11 User Reviews and Ratings
 - Lab Manual For Physics For Class 11 and Bestseller Lists
5. Accessing Lab Manual For Physics For Class 11 Free and Paid eBooks
 - Lab Manual For Physics For Class 11 Public Domain eBooks
 - Lab Manual For Physics For Class 11 eBook Subscription Services
 - Lab Manual For Physics For Class 11 Budget-Friendly Options
 6. Navigating Lab Manual For Physics For Class 11 eBook Formats
 - ePub, PDF, MOBI, and More
 - Lab Manual For Physics For Class 11 Compatibility with Devices
 - Lab Manual For Physics For Class 11 Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Lab Manual For Physics For Class 11
 - Highlighting and Note-Taking Lab Manual For Physics For Class 11
 - Interactive Elements Lab Manual For Physics For Class 11
 8. Staying Engaged with Lab Manual For Physics For Class 11
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Lab Manual For Physics For Class 11
 9. Balancing eBooks and Physical Books Lab Manual For Physics For Class 11
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lab Manual For Physics For Class 11
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Lab Manual For Physics For Class 11
 - Setting Reading Goals Lab Manual For Physics For Class 11
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Lab Manual For Physics For Class 11

- Fact-Checking eBook Content of Lab Manual For Physics For Class 11
 - 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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