



Science Lab

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Product Name :

Free Vibrations Of A Cantilever

Product Code :

SLE/ETM/06



Description :

- This product is part of a range that explores free vibrations in simple 'one degree of freedom' systems.
- A beam with the mass at the end works in a similar way to a mass spring system - the stiffness of the beam simply replaces the stiffness of the spring.
- The vibrating cantilever examines what happens if the spring element is not light.
- A back panel fixes to the Test Frame.
- Panel holds a sturdy clamp and two runners. Clamp holds the beam.
- Students use the clamp to adjust the oscillating length of the cantilever.
- The runners hold a non-contacting sensor that measures the oscillations at the end of the cantilever.
- The sensor has no physical contact with the beam, for negligible damping.
- The vibrating cantilever forms a simple and highly visual example of oscillations that may occur in real structures such as aircraft wings.

Such as:

- Simple harmonic motion (SHM) and frequency of oscillation.
- Beam stiffness, Rayleigh's method, Dunkerley's method, Second moment of area.
- Phase difference between displacement and its derivatives.

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