



Email : sales@laboratoryinstrumentindia.com

Product Name :
Free And Forced Vibrations

Product Code :
LBNY-0005-14000010



Description :

Experiments:

Using Rayleighs approximation to predict vibration frequenc
Frequency of oscillation and varying mass
Free and forced vibrations of a rigid beam and spring
Free and forced vibrations of a flexible pinnedpinned simply supported) beam
Phase relationship between the applied force and beam position for different damping values
Demonstration of a 2 degree of freedom (2DOF) system
Finding the beam only frequency using Dunkerleys Method
Demonstration of an undamped vibration absorber
Phase difference between displacement, its derivatives and measured acceleration
Damped free and forced oscillations and damping coefficient.

Operating Conditions:

Operating environment: Laboratory environment
Operating temperature range: +5C to +40C
Operating relative humidity range: 80% at temperatures Storage temperature range: 25C to +55C (when packed for transport)

Technical Specification :

Nett dimensions and weight: 1280 wide x 450 mm front to back x 800 mm high(assembled) and 80 kg
Other parts 4 kg
Packed dimensions and weight: 1 m 3 and 120 kg

Other Parts Included:

Spring for beam and spring tests

Storage tray and tools

Vibration absorber

5 x 400 g masses

Dashpot damper

500 mL of non-toxic fluid (for dashpot damper).



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