Product Name :

Free And Forced Vibrations

Product Code :

SLE/ETM/13

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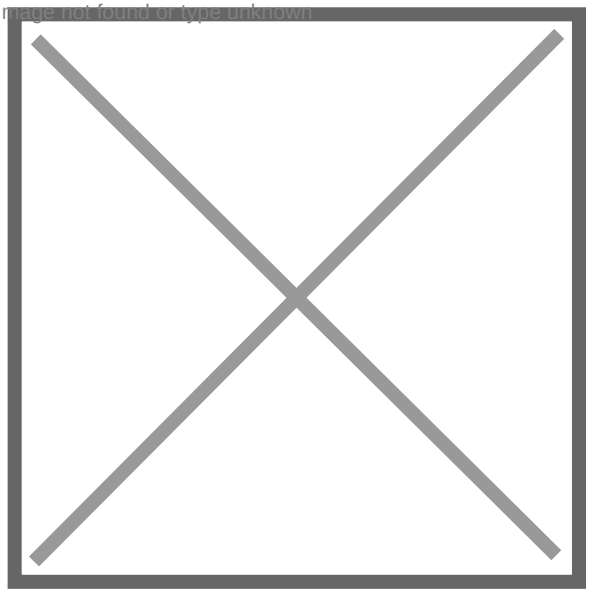

Description :

- This gives a simple and quick system set up and changeover time.
- This gives minimal cyclical variation due to inertial load variations.
- A non-contacting sensor measures beam displacement.
- Students may vibrate the systems manually.
- The servomotor has its own encoder and advanced controller for accurate speed regulation.
- The sensor has no physical contact with the oscillating system, for negligable damping.
- This ensures repeatable results over a range of ambient temperatures.
- An encoder linked to the rotating exciter mass measures its dynamic position.
- They may also force the vibrations using a high-quality variable speed servomotor driving a rotating offset mass - forming an ‘exciter’.
- The beam is of high-grade ground steel, and the pivots use high-quality ball races for lowest friction and incidental damping.
- An accelerometer built into the exciter assembly works to show the phase relationship between beam displacement and acceleration.
- It also helps to compare measured acceleration with that derived from the displacement using the software.
- The unit includes a variable-area viscous dashpot damper, for use with a non-toxic fluid (supplied) of stable viscosity.

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