

Product Name :
Ships Vibration Test Model

Product Code :
ALABS-A43-043



Description :

Ships Vibration Test Model

- Apparatus designed to enable students to investigate a simple model hull form for resonance phenomena.
- The apparatus comprises an experimental model hull, a rigid supporting frame, a vibrator (complete with signal generator and power amplifier) and an optional Flotation Tank .
- The experimental model is flat bottomed, wall-sided and open topped. It has an elliptical plan form.

- Length to beam ratio 8:1

- Length to depth ratio of 12:1

- Used to demonstrate the principle phenomena associated with ship resonant vibration.
- Can be used to investigate resonance phenomena in both air and water.

Capabilities :

- Investigate model characteristics of a simple suspended ship shaped box girder
- Produce a resonance curve .Produce the amplitude curve of a 2-node and 3-node flexural model
- Illustrate the influence of mass and its distribution upon natural flexural frequencies

In water to:-

- Measure the influence of added virtual mass on natural frequency
- Illustrate the effect of the addition and distribution of sand ballast on the natural frequency
- Calculate the added virtual mass by different methods and compare with experimentally measured influence using a Schlick-type formula



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