

Experiment No. 3.

AIM: Equivalent spring mass system.

DESCRIPTION OR SET UP:

Fig. shows the general arrangement of experiment setup. It's consist of fixed support of which there is hole where spring can be attached through the hook.

THEORY:

Spring in Series:

Let K_e =Equivalent stiffness of system

K_1, K_2 =Deflection of spring.

The total deflection of the system is equal to the sum of deflection of individual springs.

$$x = x_1 + x_2 + x_3 + \dots$$

$$\frac{1}{K_e} = \frac{1}{K_1} + \frac{1}{K_2} + \frac{1}{K_3} + \dots$$

Thus the springs are connected in series the reciprocal of equivalent spring stiffness is equal to the sum of reciprocal of individual spring stiffness.

PROCEDURE:

1. First the tension spring is attached to the support with load m_1 attached to it and it's length is measure (pitch).
2. Then dead wt. is attached to that spring with the help of hook and again length is measured.
3. Same procedure is applied for the spring 2 of different stiffness.
4. Then spring i.e. spring 1 and spring 2 connected in series and length is measured then dead wt. is attached to spring and length is measured.

Observations:

For Spring 1:

Initial pitch = 8mm

Final pitch (with load) = 11mm Load = 1.5kg

Deflection = 3mm

For Spring 2:

Initial pitch = 7mm

Mechanical Vibration Lab Manual

Lingjun Ying



Mechanical Vibration Lab Manual:

Unveiling the Energy of Verbal Art: An Mental Sojourn through **Mechanical Vibration Lab Manual**

In a global inundated with monitors and the cacophony of quick interaction, the profound power and psychological resonance of verbal artistry usually fade into obscurity, eclipsed by the continuous assault of sound and distractions. However, situated within the lyrical pages of **Mechanical Vibration Lab Manual**, a fascinating perform of literary brilliance that pulses with fresh thoughts, lies an wonderful journey waiting to be embarked upon. Penned by way of a virtuoso wordsmith, that enchanting opus manuals viewers on an emotional odyssey, softly exposing the latent potential and profound influence stuck within the delicate web of language. Within the heart-wrenching expanse of this evocative examination, we shall embark upon an introspective exploration of the book is key themes, dissect their charming writing style, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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