



ENGINEERING MECHANICS
Experiment no. 6

Title: To find coefficient of restitution, impulse of rate of energy loss for a direct central impact between the two bodies.

Aim: To find coefficient of restitution, impulse of rate of energy loss for a direct central impact between the two bodies.

Apparatus: A rubber ball, Meter scale, plastic ball, marble ball

Theory: When a particle of mass 'm' moving with velocity v is called upon by force 'f' Newton's law

$$F = \frac{d}{dt}(mv) \text{ or at } F \cdot dt = d(mv) .$$

Integrating this for time t_1 to time t_2 , when the velocity change from v_1 to v_2 the equation becomes

$$mv_1 = \int f dt = mv_2.$$

The integral in equation (1) is known as linear impulse or impulse of the force .Thus the final momentum impulse may be obtained by velocity adding initial momentum impulse during the time t impact as shown in fig. This is principle of impulse of movement.

A collision between two bodies which occurs in very small interval of time during which the body exert large force of impact. The common normal to the surface contact during impact is known as line of impact of their mass center are located on this line the impact is said to direct central impact.

Engineering Mechanics Notes For First Year

S Ashworth



Engineering Mechanics Notes For First Year:

Enjoying the Song of Appearance: An Psychological Symphony within **Engineering Mechanics Notes For First Year**

In a world taken by monitors and the ceaseless chatter of immediate connection, the melodic splendor and mental symphony created by the published word usually fade into the background, eclipsed by the relentless sound and distractions that permeate our lives. Nevertheless, set within the pages of **Engineering Mechanics Notes For First Year** an enchanting literary prize brimming with organic emotions, lies an immersive symphony waiting to be embraced. Constructed by an elegant composer of language, this captivating masterpiece conducts visitors on a psychological journey, well unraveling the concealed songs and profound affect resonating within each carefully constructed phrase. Within the depths of the touching review, we will investigate the book is main harmonies, analyze its enthralling writing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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