



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 1st Year Notes

Christian Drosten



Engineering Mechanics 1st Year Notes:

Enjoying the Track of Term: An Psychological Symphony within **Engineering Mechanics 1st Year Notes**

In some sort of taken by screens and the ceaseless chatter of quick communication, the melodic elegance and mental symphony created by the written term usually fade in to the background, eclipsed by the relentless noise and distractions that permeate our lives. However, set within the pages of **Engineering Mechanics 1st Year Notes** a marvelous literary treasure filled with natural emotions, lies an immersive symphony waiting to be embraced. Constructed by an outstanding musician of language, that charming masterpiece conducts visitors on a mental trip, skillfully unraveling the hidden tunes and profound affect resonating within each carefully constructed phrase. Within the depths with this moving review, we can explore the book is main harmonies, analyze its enthralling publishing design, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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