



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

Sabine Zange



Engineering Mechanics 1st Year Notes:

Engineering Mechanics 1st Year Notes Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Engineering Mechanics 1st Year Notes**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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