## Physics Theory Part 19

Topics: Mechanics of Collisions/ Thermal Physics

Course: B.Sc/ Physics

Dr. Rajesh Kumar Neogy Assistant Professor, Physics M. L. Arya College, Kasba Purnea University, Purnia, Bihar Coeff. of Resistitution is defined as pis CR = U = velocity of the object after 9 mpact
", " before " L O≤ CR≤1, 96 CR=1 then elastic Callision =0 11 gnelastic 11 Coeff of Mesistitution Indicates the general bounciness of objects/surfaces included. If the ball used for testing the surface is solid then it will be obsenced that the ball vises tomasimum height in case of full surface (CRN1) and on the russer bouncing back is minimum i, e almost it stick to suspace i, e Cpuso. Experiment: Drop the Basket ball on the sustaces from the same height, terleral times and count the Sounces and heights. since no. of bounces will be very large, video camera will do that well. Record the height & time, calculate reloaties before 4 after impact then Calculate CR. From Cevalue une Con find typer of Sustaces, OneogyMLAC, rojesh, neogy agmail com

In Isothermal Procen Entropy change is given by DS = Soer drev = Heat transferred to the system reversibly T = Absolute Temp, (x). of the foocon is reversible then And as will always be Positive in case of isserversiste Process. SO; DSZO

## FOR ANY QUERIES FEEL FREE TO CONTACT ME AT EMAIL: RAJESH.NEOGY@GMAIL.COM

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**Thanksss**