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LECTURE NOTES; 1: Course Overview Single Particle Dynamics: Linear and Angular Momentum Principles, Work-energy Principle : 2: Examples of Single Particle Dynamics : 3: Examples of Single Particle Dynamics (cont.) 4: Dynamics of Systems of Particles: Linear and Angular Momentum Principles, Work-energy Principle : 5

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Deformable-body mechanics, and Fluid mechanics. Rigid-body mechanics is divided into two areas: 1. Statics: deals with the equilibrium of bodies, that is, those that are at rest or move with a constant velocity. 2. Dynamics: is concerned with the accelerated motion of bodies. Note: We can consider statics as a special case of dynamics, in which the

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Engineering Mechanics: Dynamics • Weight –Only significant gravitational force between the earth and a particle located near the surface • $g = GM_e / r^2$: acceleration due to gravity (9.81m/s²) • Variation of g with altitude $r^2 = R_e^2 - h^2$ $W = mg$ ME101 - Division III Kaustubh Dasgupta 5 2 2 0 R h R g g is the absolute acceleration due to gravity at altitude h

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Gary L. Gray, Francesco Costanzo, and Michael E. Plesha (2013) Lecture notes. Date Rating

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Engineering Mechanics is the study of forces that act on bodies and the resultant motion that those bodies experience. This notes includes axes rotation Condition of Equilibrium from Moments and Equilibrium of Parallel Forces Analysis of Structure.

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Analytical Mechanics (Undergraduate Lecture Notes in ...

engineering mechanics by reducing a complex "reality" to appropriate mechanical and mathematical models. In the beginning, the concept of continua is expounded in comparison to real materials.. After a review of the terms motion, displacement, and deformation, measures for strains and the concepts of forces and stresses are introduced. Next, the basic

Engineering Mechanics - HZG

Lectures notes On Engineering Mechanics Mechanics describes and predicts the conditions of rest or motion of bodies under the action of forces. Engineering mechanics applies the principle of mechanics to design, taking into account the effects of forces.

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