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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

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dynamics, in which the

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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/s<sup>2</sup>)

• Variation of g with

altitude  $r^2 = \frac{GM_e}{g}$



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W mg ME101 - Division  
III Kaustubh Dasgupta  
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the absolute  
acceleration due to  
gravity at altitude h g

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Gary L. Gray,  
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Engineering Mechanics  
is the study of forces  
that act on bodies and

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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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mechanics to solve  
problems involving  
common engineering  
elements. The goal of

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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

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