

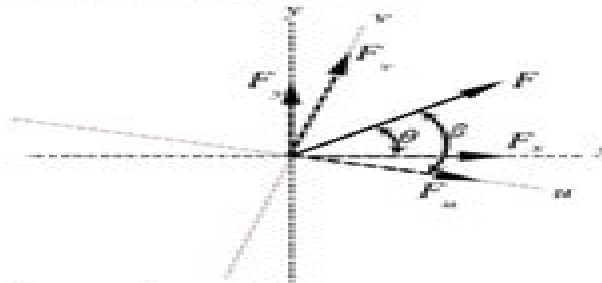
CHAPTER 5 – FORCE, MASS, AND ACCELERATION

5.1 Types of Forces

In general, *force* is considered as a “push” or “pull” exerted by one body on another. Force can affect both the motion and the deformation of the body on which it acts. Forces may arise from direct contact between bodies, or they may be applied at a distance such as gravitational attraction. Contact forces are distributed over a surface area of the body, sometimes the area over which a contact force is applied is so small that it may be approximated by a point in which case the force is said to be *concentrated force*. The point of contact is also called the *point of application* of the force.

5.2 Components of a force

Forces acting at some angle from the coordinate axes can be resolved into mutually perpendicular forces called components.



Components of the force along the x-y axes

$$F_x = F \cos(\theta) \quad \& \quad F_y = F \sin(\theta)$$

Components of the force along the u-v axes

$$F_u = F \cos(\beta) \quad \& \quad F_v = F \sin(\beta)$$

5.3 Gravitational Force

Near to the surface of Earth a body of mass m experiences a force of gravity given by

$$W = mg$$

where $g = 9.81 \text{ m/s}^2$ and the force mg is directed towards the center of Earth.

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