

ENGINEERING MECHANICS

STATICS

In statics we consider the effects and distribution of forces on rigid bodies which are and remain at rest.

Formulas:

Force Components:

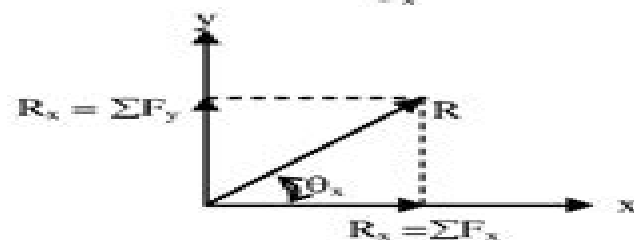
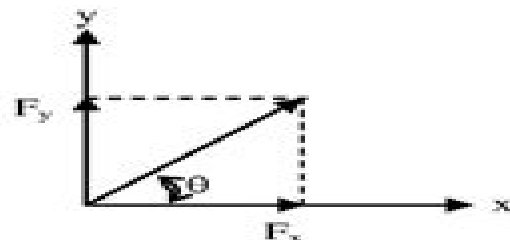
$$F_x = F \cos \theta$$

$$F_y = F \sin \theta$$

Resultant R:

$$R = \sqrt{(\sum F_x)^2 + (\sum F_y)^2}$$

$$\theta_x = \tan^{-1} \left| \frac{\sum F_y}{\sum F_x} \right|$$



Conditions of Equilibrium

$$R = 0 ; \sum F_x = 0, \sum F_y = 0 , \sum M_o = 0$$

Friction:

For Blocks and Wedges:

$$\tan \theta = \mu \frac{F_f}{N}$$

where: F_f – frictional force

ϕ – angle of friction

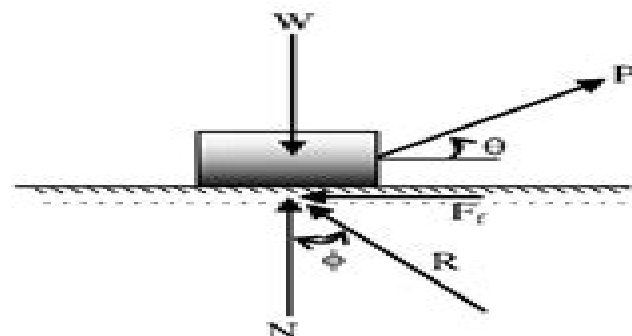
N – normal force

R – Resultant of F_f and N

μ – coefficient of friction

μ_s – coefficient of static friction

μ_k – coefficient of kinetic friction



Note: for minimum value of P , $\theta = \phi$

Answer Key Engineering Mechanics

Hemant Jain



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