DIPLOMA STUDENTS IN TECHNICAL STUDIO BY BHANU PRATAP SINGH

PRINCIPLE OF MOMENT AND ITS APPLICATION:

(B. T.E.U.P. 2004)

LEVERS: Simple Machine

Consisting of a beam or rigid rod

pivoted at a fulcrum.

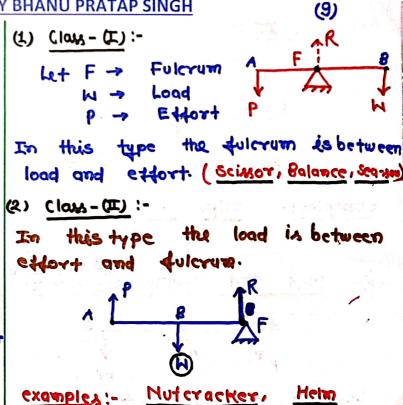
A lever is a rigid rod capable of

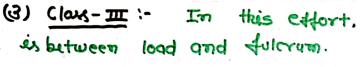
rotating on a point.

- control load.
- → Distance between fulcrum to effort and fulcrum to Height is called lever's arm.

On the basis of locations of fulcrum. load, effort the lever is divided into three types-

- T- Cland I
- 2- day II
- 3-Class III





examples:- clip, Tongs.

Lever is balanced due to P and W. tunce EMF = 0

Leverage:-

It is the ratio of Effort Arm to the load ann.

Hence;

$$M.A = Leverage = \frac{W}{P} = \frac{AF}{8F}$$