Engineering Mechanics Statics Chapter 4

John Wiley & Sons Inc - Chapter 2: Force and Force Systems

Description: -

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Moment of a Force—Scalar Formulation
of a force / Moment.
is applied to a body it will produce a tendency for
Point that is not on the line of action of the force

A force is applied to the handle of the wrench it will tend to turn the both about point *O(or the sexts)* Magnitude of the moment is directly proportional to the magnitude of F and the Perpendicular Distance or Moment Arm of

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Notes: -

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Engineering Mechanics: Statics & Dynamics (14th Edition) Chapter 1

MAGNITUDE AND DIRECTION OF A FORCE.

Engineering Mechanics Statics

The method use depends on the problem at hand. In Mechanics, all concentrated forces are taken as sliding vectors and the principle of transmissibility can be used for all analyses.

Chapter 4

If the force F is made to slide along its line of action from A to a new point of application B, the values of the reactions exerted by the support surface on the structure do not change. This is proprietary material solely for authorized instructor use. The online questions are identical to the textbook questions except for minor wording changes necessary for Web use.

Chapter 2: Force and Force Systems

The effects exist to balance the respective external actions and effects.

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