

Chapter 2

- Force - created by the interaction between two bodies

 - vector quantity

- \mathbf{F} : represents both the magnitude and the direction of the forces.

- F : denotes only the magnitude of the force

- Force - can be expressed as direction line on which the force lies along the shaft of the arrow.

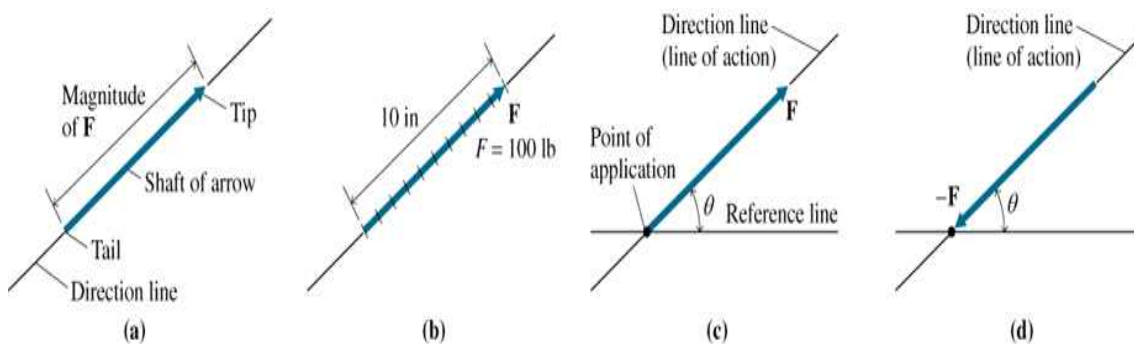


Fig. 2.2 (a) Representation of a force \mathbf{F} by an arrow. (b) Magnitude of \mathbf{F} (1 in = 10 lb). (c) Line of action and point of application of \mathbf{F} . (d) Negative force vector $-\mathbf{F}$.