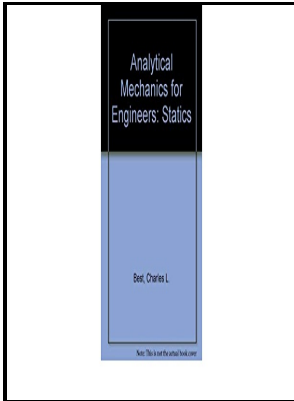


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If and determine the magnitude and direction, measured counterclockwise from the axis, of the resultant force of the three forces acting on the bracket. If their lines of action are at an angle apart and the magnitude of each force is determine the magnitude of the resultant force F_R and the angle between F_R and F_1 . Consult the coordinator as to which of these three courses is most appropriate.

Analytical mechanics

Determine the angle and the magnitude of force F so that the resultant force acting on the post is directed vertically upward and has a magnitude of 750 N. If the center of gravity exists outside the foundations, then the body is unstable because there is a torque acting: any small disturbance will cause the body to fall or topple. Component of F perpendicular to is Ans.

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Express the result in terms of the magnitudes of the component and resultant F_2 and the angle. This is a comprehensive book meeting complete requirements of Engineering Mechanics course of under graduate students.

Analytic Mechanics

An example of a body force is the weight of a body in the Earth's gravitational field.

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Given: $F = 300\text{ N}$ at 1° .

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