

3-3. If the mass of the girder is 3 Mg and its center of mass is located at point G , determine the tension developed in cables AB , BC , and BD for equilibrium.



Equations of Equilibrium: The girder is suspended from cable AB . In order to meet the conditions of equilibrium the tensile force developed in cable AB must be equal to the weight of the girder. Thus,

$$F_{AB} = 3000(9.81) = 29\,430 \text{ N} = 29.43 \text{ kN} = 29.4 \text{ kN} \quad \text{Ans.}$$

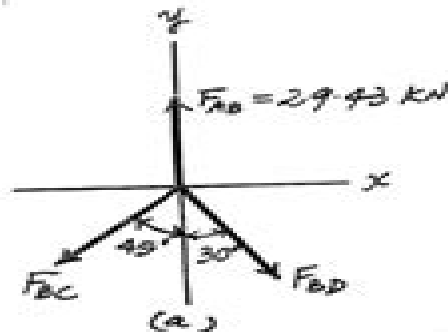
Applying the equations of equilibrium along the x and y axes to the free-body diagram in Fig. (a),

$$\sum F_x = 0; \quad F_{BD} \sin 30^\circ - F_{BC} \sin 45^\circ = 0 \quad (1)$$

$$+ \uparrow \sum F_y = 0; \quad 29.43 - F_{BD} \cos 30^\circ - F_{BC} \cos 45^\circ = 0 \quad (2)$$

Solving Eqs. (1) and (2), yields

$$F_{BC} = 15.2 \text{ kN} \quad F_{BD} = 21.5 \text{ kN} \quad \text{Ans.}$$



Chapter 3 Solutions Engineering Mechanics Statics

Christian Drosten



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Systems Ki Bang Lee,2011-03-21 The building blocks of MEMS design through closed form solutions

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Theory of Gyroscopic Effects for Rotating Objects Ryspek Usubamatov, 2025-08-12 This book highlights an analytical solution for the dynamics of axially rotating objects It also presents the theory of gyroscopic effects explaining their physics and using mathematical models of Euler's form for the motion of movable spinning objects to demonstrate these effects The major themes and approaches are represented by the spinning disc and the action of the system of interrelated inertial torques generated by the centrifugal and Coriolis forces as well as the change in the angular momentum The interrelation of inertial torques is based on the dependency of the angular velocities of the motions of the spinning objects around axes by the principle of mechanical energy conservation These kinetically interrelated torques constitute the fundamental principles of the mechanical gyroscope theory that can be used for any rotating objects of different designs like rings cones spheres paraboloids propellers etc Lastly the mathematical models for the gyroscopic effects are validated by practical tests This book is highlighted in its already third edition The new edition comprises many new sections for several chapters or new chapters The most important ones are Chapter 3 includes a mathematical model for the section inertia torques acting on the spinning annulus and thin ring The latter does not have a full solution because the handbooks comprise simplified parameters that cannot be used for an exact solution Chapter 4 offers mathematical model for the arbitrary disposition of the spinning object in space that shows the action of the additional four inertial torques acting on the third axis and new dependencies of gyroscope motions Chapter 7 now presents mathematical model for the gyroscope nutation with a full solution The known mathematical model presents a partial solution due to the complexity of the problem

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