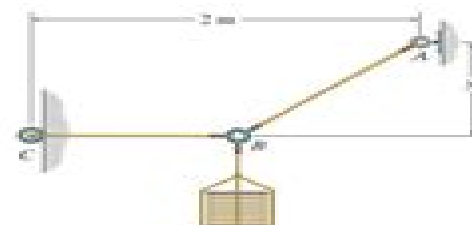


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3–2. If the 1.5-m-long cord AB can withstand a maximum force of 3500 N, determine the force in cord BC and the distance y so that the 200-kg crate can be supported.



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

$$+\uparrow \Sigma F_y = 0$$

$$3500 \sin \theta - 200(9.81) = 0$$

$$\theta = 34.10^\circ$$

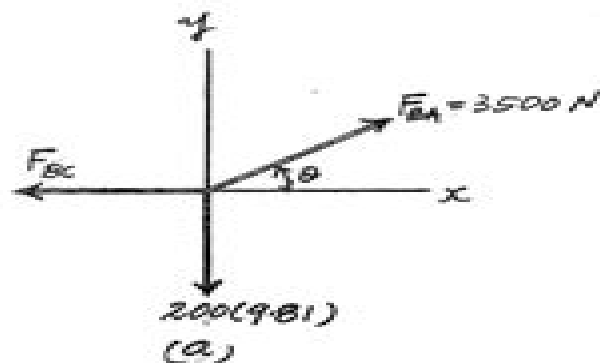
$$+\rightarrow \Sigma F_x = 0$$

$$3500 \cos 34.10^\circ - F_{BC} = 0$$

$$F_{BC} = 2898.37 \text{ N} = 2.90 \text{ kN}$$

Ans.

$$y = 1.5 \sin 34.10^\circ = 0.841 \text{ m} = 841 \text{ mm} \quad \text{Ans.}$$



Chapter 3 Solutions Engineering Mechanics Statics

Richard Bailey



Chapter 3 Solutions Engineering Mechanics Statics:

Engineering Mechanics: Statics James L. Meriam,1992 Principles of Microelectromechanical Systems Ki Bang Lee,2011-03-21 The building blocks of MEMS design through closed form solutions Microelectromechanical Systems or MEMS is the technology of very small systems it is found in everything from inkjet printers and cars to cell phones digital cameras and medical equipment This book describes the principles of MEMS via a unified approach and closed form solutions to micromechanical problems which have been recently developed by the author and go beyond what is available in other texts The closed form solutions allow the reader to easily understand the linear and nonlinear behaviors of MEMS and their design applications Beginning with an overview of MEMS the opening chapter also presents dimensional analysis that provides basic dimensionless parameters existing in large and small scale worlds The book then explains microfabrication which presents knowledge on the common fabrication process to design realistic MEMS From there coverage includes Statics force and moment acting on mechanical structures in static equilibrium Static behaviors of structures consisting of mechanical elements Dynamic responses of the mechanical structures by the solving of linear as well as nonlinear governing equations Fluid flow in MEMS and the evaluation of damping force acting on the moving structures Basic equations of electromagnetics that govern the electrical behavior of MEMS Combining the MEMS building blocks to form actuators and sensors for a specific purpose All chapters from first to last use a unified approach in which equations in previous chapters are used in the derivations of closed form solutions in later chapters This helps readers to easily understand the problems to be solved and the derived solutions In addition theoretical models for the elements and systems in the later chapters are provided and solutions for the static and dynamic responses are obtained in closed forms This book is designed for senior or graduate students in electrical and mechanical engineering researchers in MEMS and engineers from industry It is ideal for radio frequency electronics sensor specialists who for design purposes would like to forego numerical nonlinear mechanical simulations The closed form solution approach will also appeal to device designers interested in performing large scale parametric analysis **Engineering Mechanics: Static** James L. Meriam,1997 **Engineering Mechanics , Statics** J. L. Meriam,L. G. Kraige,2001-08-28 **Geodynamics** Donald L. Turcotte,Gerald Schubert,2002-03-25 Publisher Description

Engineering Mechanics, Statics and Dynamics Joseph F. Shelley,1980 **Engineering Mechanics: Statics and Dynamics** R. C. Hibbeler,1974 **Engineering Mechanics, Statics** David J. McGill,Wilton W. King,1989 *Engineering Mechanics: Statics* R. C. Hibbeler,1974 *Engineering Mechanics, Statics* Joseph F. Shelley,1980 *Engineering Mechanics: Statics and Dynamics* Carleton G. Fanger,1970 *Engineering Mechanics: Statics and Dynamics* David I. Cook,Donald Pierce,1960 *Schaum's Outline of Engineering Mechanics: Statics, Seventh Edition* Merle C. Potter,E. W. Nelson,Charles L. Best,William G. McLean,2021-01-01 Tough Test Questions Missed Lectures Not Enough Time Fortunately there s Schaum s More than 40 million students have trusted Schaum s to help them succeed in the classroom and on exams

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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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