



PROBLEM 2.49

Two cables are tied together at C and are loaded as shown. Knowing that $P = 300$ N, determine the tension in cables AC and BC .

SOLUTION

Free-Body Diagram



$$+\rightarrow \Sigma F_x = 0 \quad -T_{CA} \sin 30^\circ + T_{CB} \sin 30^\circ - P \cos 45^\circ - 200 \text{ N} = 0$$

For $P = 200$ N we have,

$$-0.5T_{CA} + 0.5T_{CB} + 212.13 - 200 = 0 \quad (1)$$

$$+\uparrow \Sigma F_y = 0 \quad T_{CA} \cos 30^\circ - T_{CB} \cos 30^\circ - P \sin 45^\circ = 0$$

$$0.86603T_{CA} + 0.86603T_{CB} - 212.13 = 0 \quad (2)$$

Solving equations (1) and (2) simultaneously gives,

$$T_{CA} = 134.6 \text{ N} \quad \blacktriangleleft$$

$$T_{CB} = 110.4 \text{ N} \quad \blacktriangleleft$$

Beer And Johnston Vector Dynamics Solution Manual

**Ferdinand Pierre Beer, Elwood Russell
Johnston**



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Vector Mechanics for Engineers Ferdinand Pierre Beer, Elwood Russell Johnston, 1972 **EBOOK: Vector Mechanics for Engineers: Dynamics (SI)** Ferdinand Beer, E. Johnston, Phillip Cornwell, 2013-04-16 Continuing in the spirit of its successful previous editions the tenth edition of Beer Johnston Mazurek and Cornwell's Vector Mechanics for Engineers provides conceptually accurate and thorough coverage together with a significant refreshment of the exercise sets and online delivery of homework problems to your students Nearly forty percent of the problems in the text are changed from the previous edition The Beer Johnston textbooks introduced significant pedagogical innovations into engineering mechanics teaching The consistent accurate problem solving methodology gives your students the best opportunity to learn statics and dynamics At the same time the careful presentation of content unmatched levels of accuracy and attention to detail have made these texts the standard for excellence **Dynamics - Formulas and Problems** Dietmar Gross, Wolfgang Ehlers, Peter Wriggers, Jörg Schröder, Ralf Müller, 2016-10-05 This book contains the most important formulas and more than 190 completely solved problems from Kinetics and Hydrodynamics It provides engineering students material to improve their skills and helps to gain experience in solving engineering problems Particular emphasis is placed on finding the solution path and formulating the basic equations Topics include Kinematics of a Point Kinetics of a Point Mass Dynamics of a System of Point Masses Kinematics of Rigid Bodies Kinetics of Rigid Bodies Impact Vibrations Non Inertial Reference Frames Hydrodynamics **VECTOR MECHANICS FOR ENGINEERS: STATICS AND DYNAMICS, SI** Ferdinand Beer, E. Johnston, David Mazurek, Phillip Cornwell, Brian Self, 2025-11-24 Vector Mechanics for Engineers helps students analyze problems in a simple and logical manner and then apply basic principles to their solutions encouraging a strong conceptual understanding of these basic principles Offering a unified presentation of the principles of kinetics and a systematic problem solving approach the text has proven to be an effective teaching tool especially when paired with the digital resources available in Connect The addition of Case Studies in every chapter are based on actual structures and systems include failures provide students with real world engineering applications And Sample Problems liberally used at the end of each lesson align with the SMART methodology to amplify the neat and orderly work students should cultivate in their own solutions **Ebook: Vector Mechanics Engineering: Dynamics SI** BEER, 2010-12-16 Ebook Vector Mechanics Engineering Dynamics SI **Ebook: Vector Mechanics for Engineers: Statics and Dynamics** BEER, 2010-10-16 Ebook Vector Mechanics for Engineers Statics and Dynamics **The Publishers' Trade List Annual** , 1979 Solutions Manual to Accompany Vector Mechanics for Engineers Ferdinand Pierre Beer, Elwood Russell Johnston, 1977 **Canadiana** , 1991-05 **Engineering Education** , 1983

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