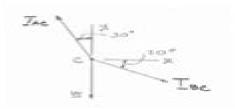


PROBLEM 2.47

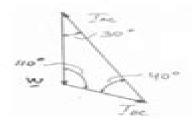
Two cables are tied together at C and are loaded as shown. Determine the tension (a) in cable AC, (b) in cable BC.

SOLUTION

Free-Body Diagram



Force Triangle



$$W = mg = (50 \text{ kg})(9.81 \text{ m/s}^2) = 490 \text{ N}$$

Law of sines:

$$\frac{T_{AC}}{\sin 110^{\circ}} = \frac{T_{BC}}{\sin 30^{\circ}} = \frac{490 \text{ N}}{\sin 40^{\circ}}$$

$$T_{AC} = \frac{490 \text{ N}}{\sin 40^{\circ}} \sin 110^{\circ}$$

$$T_{AC} = 716 \text{ N} \blacktriangleleft$$

$$T_{BC} = \frac{490 \text{ N}}{\sin 40^{\circ}} \sin 30^{\circ}$$

$$T_{\rm acc}=381~{
m N}$$

Vector Mechanics Statics Solution Manual

Xiang Xie

Vector Mechanics Statics Solution Manual:

Solutions Manual to Accompany Vector Mechanics for Engineers, Statics, Third Ferdinand P. Beer, Elwood Russell Johnston, Théodore Wildi, 1998 Introduction La statique des particules La statique des corps rigides systemes de forces equivalentes L equilibre des corps rigides Forces reparties centroides et centres de gravite Etudes des structures Forces dans les poutres et les cables Frottement Forces reparties moment d inertie Methode des travaux virtuels

Solutions Manual to Accompany Vector Mechanics for Engineers, Statics Ferdinand Pierre Beer, Elwood Russell

Johnston, 1982 Solutions Manual to Accompany Vector Mechanics for Engineers Ferdinand Pierre Beer, Elwood

Russell Johnston, 1977 Instructor's and Solutions Manual to Accompany Vector Mechanics for

Engineer-dynamics Ferdinand Pierre Beer, Elwood Russell Johnston, William E. Clausen, George Staab, Dean P. Updike, 2004 **Vector Mechanics for Engineers** Ferdinand Pierre Beer, Elwood Russell Johnston, 1972 **Solutions Manual to Accompany Vector Mechanics for Engineers** ,1996 EBOOK: Vector Mechanics for Engineers: Statics (SI units) Ferdinand Beer, E. Johnston, David Mazurek, 2012-10-16 Target Audience This text is designed for the first course in Statics offered in the sophomore year OverviewThe main objective of a first course in mechanics should be to develop in the engineering student the ability to analyze any problem in a simple and logical manner and to apply to its solution a few well understood basic principles. This text is designed to help the instructor achieve this goal Vector analysis is introduced early in the text and is used in the presentation and discussion of the fundamental principles of mechanics Vector methods are also used to solve many problems particularly three dimensional problems where these techniques result in a simpler and more concise solution The emphasis in this text however remains on the correct understanding of the principles of mechanics and on their application to the solution of engineering problems and vector analysis is presented chiefly as a convenient tool In order to achieve the goal of being able to analyze mechanics problems the text employs the following pedagogical strategy Practical applications are introduced early New concepts are introduced simply Fundamental principles are placed in simple contexts Students are given extensive practice through sample problems special sections entitled Solving Problems on Your Own extensive homework problem sets review problems at the end of each chapter and computer problems designed to be solved with computational software Resources Supporting This Textbook Instructor's and Solutions Manual features typeset one per page solutions to the end of chapter problems It also features a number of tables designed to assist instructors in creating a schedule of assignments for their course The various topics covered in the text have been listed in Table I and a suggested number of periods to be spent on each topic has been indicated Table II prepares a brief description of all groups of problems Sample lesson schedules are shown in Tables III IV and V together with various alternative lists of assigned homework problems For additional resources related to users of this SI edition please visit http www mheducation asia olc beerjohnston McGraw Hill Connect Engineering a web based assignment and assessment platform is available at http www

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Laminar Composites George Staab,1999 Introduction to Composite Materials Review of stress Strain and Material Behavior Lamina Analysis Mechanical Test Methods for Lamina Failure Theories Laminate Analysis Appendix A B C D Glossary The Publishers' Trade List Annual ,1978 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.

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