



### 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



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

Law of sines:

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

$$(a) \quad T_{AC} = \frac{490 \text{ N}}{\sin 40^\circ} \sin 110^\circ \quad T_{AC} = 716 \text{ N} \quad \blacktriangleleft$$

$$(b) \quad T_{BC} = \frac{490 \text{ N}}{\sin 40^\circ} \sin 30^\circ \quad T_{BC} = 381 \text{ N} \quad \blacktriangleleft$$

# Vector Mechanics For Engineers Static Solution Manual

**RS Peters**



## **Vector Mechanics For Engineers Static 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

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**Instructor's and Solutions Manual to Accompany Vector Mechanics for Engineers** Yohannes Ketema,2007 **Ebook: Vector Mechanics for Engineers: Statics and Dynamics** BEER,2010-10-16 Ebook Vector Mechanics for Engineers Statics and Dynamics *Vector Mechanics for Engineers* Ferdinand Pierre Beer,Elwood Russell Johnston,1972 Vector Mechanics for Engineers: Solutions Manual; Statics Ferdinand Pierre Beer,Elwood Russell Johnston,1977 Solutions Manual to Accompany Vector Mechanics for Engineers, Statics Ferdinand P. Beer,1987 **Instructor's Solutions Manual for Problems Supplements to Accompany Vector Mechanics for Engineers, Statics and Dynamics** Henry R. Busby,2001 *Instructor's and Solutions Manual to Accompany Vector Mechanics for Engineers* Ferdinand Pierre Beer,Elwood Russell Johnston, Elliot R. Eisenberg, George Staab, Richard H. Lance,2004 **Solutions Manual to Accompany Vector Mechanics for Engineers** Ferdinand Pierre Beer,Elwood Russell Johnston,1977 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 Vector Mechanics for Engineers, Statics Ferdinand Pierre Beer,E. Russell Johnston, Jr., Elliot R. Eisenberg, George H. Staab,2004 Book is published and available as of 6 03 For the past forty years Beer and Johnston have been the uncontested leaders in the teaching of undergraduate engineering mechanics Over the years their textbooks have introduced significant theoretical and pedagogical innovations in statics dynamics and mechanics of materials education At the same time their careful presentation of content unmatched levels of accuracy and attention to detail have made their texts the standard for excellence The new Seventh Edition of Vector Mechanics for Engineers Statics continues this tradition 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

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