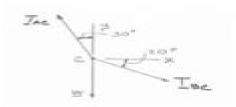


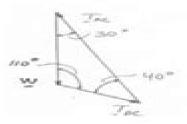
PROBLEM 2.47

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





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

Law of sines:

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

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

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

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

$$T_{SC} = 381 \text{ N} \blacktriangleleft$$

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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 mhhe com beerjohnston and includes algorithmic problems from the text Lecture PowerPoints an image bank and animations Hands on Mechanics is a website designed for instructors who are interested in incorporating three dimensional hands on teaching aids into their lectures Developed through a partnership between the McGraw Hill Engineering Team and the Department of Civil and Mechanical Engineering at the United States Military Academy at West Point this website not only provides detailed instructions for how to build 3 D teaching tools using materials found in any lab or local hardware store but also provides a community where educators can share ideas trade best practices and submit their own original demonstrations for posting on the site Visit http www handsonmechanics com McGraw Hill Tegrity a service that makes class time available all the time by automatically capturing every lecture in a searchable format for students to review when they study and complete assignments To learn more about Tegrity watch a 2 minute Flash demo at http tegritycampus mhhe com Solutions Manual to Accompany Vector Mechanics for Engineers Ferdinand Pierre Beer, Elwood Russell Johnston, 1963 **Iournal** of **Applied Mechanics**, 1977 Publishes original research in all branches of mechanics including aerodynamics aeroelasticity boundary layers computational mechanics constitutive modeling of materials dynamics elasticity flow and fracture heat transfer hydraulics impact internal flow mechanical properties of materials micromechanics plasticity stress analysis structures thermodynamics turbulence vibration and wave propagation **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

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