

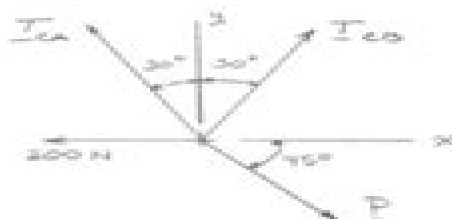


PROBLEM 2.49

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,

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

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

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

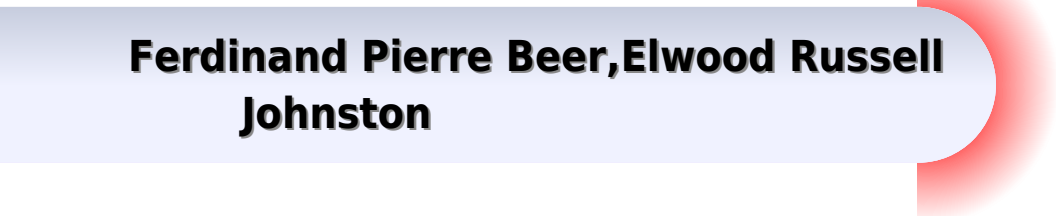
Solving equations (1) and (2) simultaneously gives,

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

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

Beer Vector Mechanics Solution Manual

**Ferdinand Pierre Beer, Elwood Russell
Johnston**



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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>

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