



### PROBLEM 2.58

For the cables of Problem 2.46, it is known that the maximum allowable tension is 600 N in cable  $AC$  and 750 N in cable  $BC$ . Determine (a) the maximum force  $P$  that can be applied at  $C$ , (b) the corresponding value of  $\alpha$ .

### SOLUTION

#### Free-Body Diagrams



(a) Law of cosines

$$P^2 = (600)^2 + (750)^2 - 2(600)(750)\cos(25^\circ + 45^\circ)$$

$$P = 784.02 \text{ N}$$

$$P = 784 \text{ N} \blacktriangleleft$$

(b) Law of sines

$$\frac{\sin \beta}{600 \text{ N}} = \frac{\sin(25^\circ + 45^\circ)}{784.02 \text{ N}}$$

$$\beta = 46.0^\circ \quad \therefore \quad \alpha = 46.0^\circ + 25^\circ$$

#### Force Triangle



# Beer Johnston Dynamics Vector Mechanics Solution Manual

**Ferdinand Pierre Beer, Elwood Russell Johnston, Elwood Russell Johnston (jr.).**

## Beer Johnston Dynamics Vector Mechanics Solution Manual:

**Vector Mechanics for Engineers** Ferdinand Pierre Beer, Elwood Russell Johnston, 1972      **Solutions Manual to Accompany Vector Mechanics for Engineers** Ferdinand Pierre Beer, Elwood Russell Johnston, 1977      [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      **Solutions Manual to Accompany Vector Mechanics for Engineers** Ferdinand Pierre Beer, Elwood Russell Johnston, 1963      *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      *Instructor's and Solutions Manual to Accompany Vector Mechanics for Engineers* Ferdinand Pierre Beer, Elwood Russell Johnston, Elwood Russell Johnston (jr.), 1998      **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. Overview The 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.com/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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