



PROBLEM 2.21

Determine the x and y components of each of the forces shown.

SOLUTION

Compute the following distances:

$$OA = \sqrt{(84)^2 + (80)^2} \\ = 116 \text{ in.}$$

$$OB = \sqrt{(28)^2 + (96)^2} \\ = 100 \text{ in.}$$

$$OC = \sqrt{(48)^2 + (90)^2} \\ = 102 \text{ in.}$$

29-lb Force:

$$F_x = +(29 \text{ lb}) \frac{84}{116}$$

$$F_y = +(29 \text{ lb}) \frac{80}{116}$$

50-lb Force:

$$F_x = -(50 \text{ lb}) \frac{28}{100}$$

$$F_y = +(50 \text{ lb}) \frac{96}{100}$$

51-lb Force:

$$F_x = +(51 \text{ lb}) \frac{48}{102}$$

$$F_y = -(51 \text{ lb}) \frac{90}{102}$$



$$F_x = +21.0 \text{ lb} \quad \blacktriangleleft$$

$$F_y = +20.0 \text{ lb} \quad \blacktriangleleft$$

$$F_x = -14.00 \text{ lb} \quad \blacktriangleleft$$

$$F_y = +48.0 \text{ lb} \quad \blacktriangleleft$$

$$F_x = +24.0 \text{ lb} \quad \blacktriangleleft$$

$$F_y = -45.0 \text{ lb} \quad \blacktriangleleft$$

Vector Mechanics Beer Solution Manual

BEER



Vector Mechanics Beer 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 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 *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* Solutions Manual to Accompany Vector Mechanics for Engineers, Statics Ferdinand Pierre Beer, Elwood Russell Johnston, 1982 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.asia/olc/beerjohnston> McGraw Hill Connect Engineering a web based assignment and assessment platform is available at <http://www.mhhe.com>

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