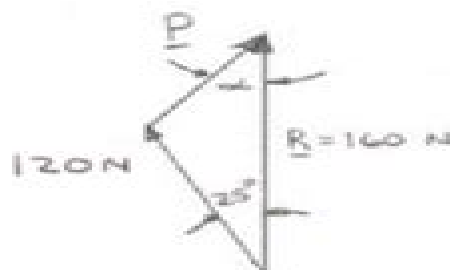


PROBLEM 2.18

For the stake of Prob. 2.5, knowing that the tension in one rope is 120 N, determine by trigonometry the magnitude and direction of the force \mathbf{P} so that the resultant is a vertical force of 160 N.

PROBLEM 2.5 A stake is being pulled out of the ground by means of two ropes as shown. Knowing that $\alpha = 30^\circ$, determine by trigonometry (a) the magnitude of the force \mathbf{P} so that the resultant force exerted on the stake is vertical, (b) the corresponding magnitude of the resultant.

SOLUTION



Using the laws of cosines and sines:

$$P^2 = (120 \text{ N})^2 + (160 \text{ N})^2 - 2(120 \text{ N})(160 \text{ N})\cos 25^\circ$$

$$P = 72.096 \text{ N}$$

And

$$\frac{\sin \alpha}{120 \text{ N}} = \frac{\sin 25^\circ}{72.096 \text{ N}}$$

$$\sin \alpha = 0.70343$$

$$\alpha = 44.703^\circ$$

$$\mathbf{P} = 72.1 \text{ N} \swarrow 44.7^\circ \blacktriangleleft$$

Beer Johnston Vector Mechanics Solution 7

**Ferdinand Beer, E. Johnston, David
Mazurek**



Beer Johnston Vector Mechanics Solution 7:

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/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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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 *The Publishers' Trade List Annual*, 1979 **Vector Mechanics for Engineers: Text** Ferdinand Pierre Beer, Elwood Russell Johnston, 1997 *Scientific and Technical Books and Serials in Print*, 1989 **Official Gazette** Philippines, 2008 Engineering Education, 1990 **Canadian Books in Print. Author and Title Index**, 1975 **Canadiana**, 1991-05 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1974 **Canadian Books in Print**, 1993 Applications of Metaheuristic Optimization Algorithms in Civil Engineering A. Kaveh, 2016-11-30 The book presents recently developed efficient metaheuristic optimization algorithms and their applications for solving various optimization problems in civil engineering The concepts can also be used for optimizing problems in mechanical and electrical engineering **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 **Theory of Vibration** Ahmed A. Shabana, 2012-12-06 The aim of this book is to impart a sound understanding both physical and mathematical of the fundamental theory of vibration and its applications The book presents in a simple and systematic manner techniques that can easily be applied to the analysis of vibration of mechanical and structural systems Unlike other texts on vibrations the approach is general based on the conservation of energy and Lagrangian dynamics and develops specific techniques from these foundations in clearly understandable stages Suitable for a one semester course on vibrations the book presents new concepts in simple terms and explains procedures for solving problems in considerable detail *Subject Guide to Books in Print*, 1984 **Classical Mechanics** Jan Awrejcewicz, 2012-07-26 This is the first volume of three devoted to Mechanics This book contains classical mechanics problems including kinematics and statics It is recommended as a supplementary textbook for undergraduate and graduate students from mechanical and civil engineering as well as for physical scientists and engineers It contains a basic

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web shinto literally the way of the gods is japan s native belief system and predates historical records the many practices attitudes and institutions that have developed to make up shinto revolve around the japanese land and seasons and their relation with the