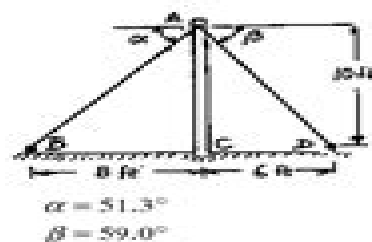


## PROBLEM 2.2

The cable stays  $AB$  and  $AD$  help support pole  $AC$ . Knowing that the tension is 120 lb in  $AB$  and 40 lb in  $AD$ , determine graphically the magnitude and direction of the resultant of the forces exerted by the stays at  $A$  using (a) the parallelogram law, (b) the triangle rule.

## SOLUTION



We measure:

(a) Parallelogram law:



(b) Triangle rule:



We measure:

$R = 138.1 \text{ lb}$   $\theta = 40.9^\circ$

$R = 138.1 \text{ lb}$   $\theta = 40.9^\circ$

# Statics 10th Edition Beer Student Solution Guide

**R Barnett**



## **Statics 10th Edition Beer Student Solution Guide:**

*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>.

**Subject Guide to Books in Print**, 1975

*Solutions Manual Accompanying "Engineering Mechanics: Statics 10th Edition"* Russell C. Hibbeler, 2003-10     **The Lancet**, 1883     Canadiana, 1982     **Chemical News and Journal of Industrial Science**, 1867     *The Athenaeum*, 1857     *Backpacker*, 2007-09 Backpacker brings the outdoors straight to the reader's doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world's first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker's Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured     **Books in Print**, 1981     *New York Magazine*, 1997-04-28 New York magazine was born in 1968 after a run as an insert of the New York Herald Tribune and quickly made a place for itself as the trusted resource for readers across the country With award winning writing and photography covering everything from politics and food to theater and fashion the magazine's consistent mission has been to reflect back to its audience the energy and excitement of the city itself while celebrating New York as both a place and an idea     Backpacker, 2001-03 Backpacker brings the outdoors straight to the reader's doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world's first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker's Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured     Scientific and Technical Books and Serials in Print, 1989     **Black Enterprise**, 2000-06 BLACK ENTERPRISE is the ultimate source for wealth creation for African American professionals entrepreneurs and corporate executives Every month BLACK ENTERPRISE delivers timely useful information on careers small business and personal finance     *Railway News, Finance and Joint-stock Companies' Journal*, 1866     *Bulletin of the Atomic Scientists*, 1973-10 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world     **Paperbound Books in Print 1995** Reed Reference Publishing, 1995-12     Library Journal Melvil Dewey, Richard Rogers Bowker, Charles Ammi Cutter, Bertine Emma Weston, Karl Brown, Helen Elizabeth Wessells, 1956 Includes beginning Sept 15 1954 and on the 15th of each month Sept May a special section School library journal ISSN 0000 0035 called Junior libraries 1954 May 1961 Issued also separately     Student Study Guide to "Engineering Mechanics: Statics 10th Edition" Russell C. Hibbeler, 2003-11 The problems in this workbook are arranged in the same order as those presented in the textbook The key equations which stress the important fundamentals of the problem solution must be supplied in the space provided All answers are given at the back of the book     **"The" Illustrated London News**, 1851     **Journal** Institution of Mechanical Engineers (Great Britain), 1947

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