



PROBLEM 2.9

A disabled automobile is pulled by means of two ropes as shown. Knowing that the tension in rope AB is 3 kN, determine by trigonometry the tension in rope AC and the value of α so that the resultant force exerted at A is a 4.8-kN force directed along the axis of the automobile.

SOLUTION



Using the law of cosines:

$$T_{AC}^2 = (3 \text{ kN})^2 + (4.8 \text{ kN})^2 - 2(3 \text{ kN})(4.8 \text{ kN})\cos 30^\circ$$

$$T_{AC} = 2.6643 \text{ kN}$$

Using the law of sines:

$$\frac{\sin \alpha}{3 \text{ kN}} = \frac{\sin 30^\circ}{2.6643 \text{ kN}}$$

$$\alpha = 34.3^\circ$$

$$T_{AC} = 2.66 \text{ kN} \searrow 34.3^\circ \quad \blacktriangleleft$$

Solution Manual For Statics Beer Johnston

**Ferdinand Pierre Beer, E. Russell
Johnston, Jr., Elliot R.
Eisenberg, George H. Staab**



Solution Manual For Statics Beer Johnston:

Vector Mechanics for Engineers Ferdinand Pierre Beer, Elwood Russell Johnston, 1972 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 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/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> *Instructor's Solutions Manual to Accompany Mechanics for Engineers* Beer,2004-12-01

VECTOR MECHANICS FOR ENGINEERS: STATICS AND DYNAMICS, SI Ferdinand Beer,E. Johnston,David Mazurek,Phillip Cornwell,Brian Self,2025-11-24 Vector Mechanics for Engineers helps students analyze problems in a simple and logical manner and then apply basic principles to their solutions encouraging a strong conceptual understanding of these basic principles Offering a unified presentation of the principles of kinetics and a systematic problem solving approach the text has proven to be an effective teaching tool especially when paired with the digital resources available in Connect The addition of Case Studies in every chapter are based on actual structures and systems include failures provide students with real world engineering applications And Sample Problems liberally used at the end of each lesson align with the SMART methodology to amplify the neat and orderly work students should cultivate in their own solutions **Solutions Manual to Accompany Vector Mechanics for Engineers** ,1996 *Solutions Manual to Accompany Vector Mechanics for Engineers, Statics* Ferdinand Pierre Beer,Elwood Russell Johnston,1982 *Ebook: Vector Mechanics for Engineers: Statics and Dynamics* BEER,2010-10-16 Ebook Vector Mechanics for Engineers Statics and Dynamics Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office,1964 Includes Part 1 Number 1 Books and Pamphlets Including Serials and Contributions to Periodicals January June **Canadiana** ,1991-05 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 **Solutions Manual to Accompany Mechanics for Engineers--statics, Third Edition** Ferdinand Pierre Beer,Elwood Russell Johnston,1976 Instructor's and Solutions Manual to Accompany Vector Mechanics for Engineers Yohannes Ketema,2007 *The Publishers' Trade List Annual* ,1979 Solutions Manual to Accompany Vector Mechanics for Engineers, Statics Ferdinand P. Beer,1987 *Formeln und Aufgaben zur Technischen Mechanik* Dietmar Gross,2013-10-05 Die wichtigsten Formeln und etwa 130 vollst ndig gel ste Aufgaben zur Technischen Mechanik 1 Statik Besonderer Wert wird auf das Finden des L sungswegs und das Erstellen der Grundgleichungen gelegt **700 Solved Problems In Vector Mechanics for Engineers: Dynamics** Joseph F.

Shelley,1991-04 Suitable for 2nd year college and university engineering students this book provides them with a source of problems with solutions in vector mechanics that covers various aspects of the basic course It offers the comprehensive solved problem reference in the subject It also provides the student with the problem solving drill **Vector Mechanics for Engineers: Solutions Manual; Statics** Ferdinand Pierre Beer,Elwood Russell Johnston,1977 Engineering Education,1983 **Journal of Applied Mechanics** ,1977 Publishes original research in all branches of mechanics including aerodynamics aeroelasticity boundary layers computational mechanics constitutive modeling of materials dynamics elasticity flow and fracture heat transfer hydraulics impact internal flow mechanical properties of materials micromechanics plasticity stress analysis structures thermodynamics turbulence vibration and wave propagation

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student exploration air track complete solution 100 ... Respond to the questions and prompts in the orange boxes.

Vocabulary: air track, approach velocity, conservation of energy, conservation of momentum, elasticity ... Air Track Gizmos_

All answers correct_ 2021 - Stuvia Nov 18, 2021 — Respond to the questions and prompts in the orange boxes. Vocabulary:

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Approach velocity = separation velocity: $v_1 - v_2 = v_2' - v_1'$... then substitute this expression into the first equation.) ... check your answers. (The Gizmo cannot ...