



PROBLEM 2.8

A disabled automobile is pulled by means of two ropes as shown. The tension in rope AB is 2.2 kN , and the angle α is 25° . Knowing that the resultant of the two forces applied at A is directed along the axis of the automobile, determine by trigonometry (a) the tension in rope AC , (b) the magnitude of the resultant of the two forces applied at A .

SOLUTION



Using the law of sines:

$$\frac{T_{AC}}{\sin 30^\circ} = \frac{R}{\sin 125^\circ} = \frac{2.2 \text{ kN}}{\sin 25^\circ}$$

$$T_{AC} = 2.603 \text{ kN}$$

$$R = 4.264 \text{ kN}$$

$$(a) \quad T_{AC} = 2.60 \text{ kN} \quad \blacktriangleleft$$

$$(b) \quad R = 4.26 \text{ kN} \quad \blacktriangleleft$$

Solution Manual For Vector Mechanics For Engineers 8th Edition

R. R. Bowker LLC



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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 *Materials with Complex Behaviour II* Andreas Öchsner, Lucas F. M. da Silva, Holm Altenbach, 2012-01-04 This volume highlights the latest developments and trends in advanced materials and their properties the modeling and simulation of non classical materials and structures and new technologies for joining materials It presents the developments of advanced materials and respective tools to characterize and predict the material properties and behavior Commands Guide Tutorial for SolidWorks 2012 David C. Planchard, Marie P. Planchard, 2011-12-18 The Commands Guide Tutorial for SolidWorks 2012 is a comprehensive reference book written to assist the beginner to intermediate user of SolidWorks 2012 SolidWorks is an immense software package and no one book can cover all topics for all users The book provides a centralized reference location to address many of the tools features and techniques of SolidWorks 2012 This book covers the following System and Document properties FeatureManagers PropertyManagers ConfigurationManagers RenderManagers 2D and 3D Sketch tools Sketch entities 3D Feature tools Motion Study Sheet Metal Motion Study Sustainability Sustainability Xpress FlowXpress PhotoView 360 Pack and Go Intelligent Modeling techniques and more Chapter 1 provides a basic overview of the concepts and terminology used throughout this book using SolidWorks 2012 software If you are completely new to SolidWorks you should read Chapter 1 in detail and complete Lesson 1 Lesson 2 and Lesson 3 in the SolidWorks Tutorials If you are familiar with an earlier release of SolidWorks you still might want to skim Chapter 1 to become acquainted with some of the commands menus and features that you have not used or you can simply jump to any section in any chapter Each chapter 18 total provides detail PropertyManager information on key topics with individual stand alone short tutorials to reinforce and demonstrate the functionality and ease of the SolidWorks tool or feature All models for the 240 plus tutorials are located on the enclosed book CD with their solution initial and final Learn by doing not just by reading Formulate the skills to create modify and edit sketches and solid features Learn the techniques to reuse features parts and assemblies through symmetry patterns copied components design tables configurations and more The book is design to compliment the Online Tutorials and Online Help contained in SolidWorks 2012 The goal is to illustrate how multiple design situations and systematic steps combine to produce successful designs The authors developed the tutorials by combining their own industry experience with the knowledge of engineers department managers professors vendors and manufacturers These professionals are directly

involved with SolidWorks everyday Their responsibilities go far beyond the creation of just a 3D model

Vector Mechanics for Engineers Ferdinand Pierre Beer, Elwood Russell Johnston, 1972

Engineering Graphics With Solidworks 2010 David C. Planchard, Marie P. Planchard, 2010-02-22

Engineering Graphics with SolidWorks 2010 is written to assist a technical school two year college four year university instructor student or industrial professional that is a beginner or intermediate SolidWorks user The book combines the fundamentals of engineering graphics and dimensioning practices with a step by step project based approach to learning SolidWorks with an enclosed 1 5 hour multimedia CD Learn by doing not just reading The book is divided into two parts Engineering Graphics and SolidWorks 3D CAD Software In chapter 1 through chapter 3 you explore the history of engineering graphics manual sketching techniques orthographic projection isometric projection multi view drawings dimensioning practices and the history of CAD leading to the development of SolidWorks In chapter 4 through chapter 8 you apply engineering graphics fundamentals and learn the SolidWorks User Interface Document and System properties simple parts simple and complex assemblies design tables configurations multi sheet multi view drawings Bill of Materials Revision tables basic and advanced features Follow the step by step instructions in over 70 activities to develop eight parts four sub assemblies three drawings and sex document properties Formulate the skills to create and modify solid features to model a 3D FLASHLIGHT assembly Chapter 9 provides a bonus section on the Certified SolidWorks Associate CSWA program with sample exam questions and initial and final SolidWorks Models Passing the CSWA exam proves to employers that you have the necessary fundamental engineering graphics and SolidWorks competencies Review individual features commands and tools for each project with the book s 1 5 hour multimedia CD and SolidWorks Help The project exercises analyze and examine usage competencies based on the project objectives The book is designed to compliment the SolidWorks Tutorials located in the SolidWorks Help menu Each section explores the SolidWorks Online User s Guide to build you working knowledge of SolidWorks Desired outcomes and usage competencies are listed for each project Know you objectives up front Follow the step by step procedures to achieve your design goals work between multiple documents features commands and properties that represent how engineers and designers utilize SolidWorks in industry The authors developed the industry scenarios by combining their own industry experience with the knowledge of engineers department managers vendors and manufacturers These professionals are directly involved with SolidWorks every day Their responsibilities go far beyond the creation of just a 3D model

Instructor's and Solutions Manual to Accompany Vector Mechanics for Engineers ,2007 *Scientific and Technical Books and Serials in Print* ,1989 **Scientific and Technical Books in Print** ,1972 Canadian Books in Print ,1985

Subject Guide to Books in Print ,1991 *Solutions Manual to Accompany Vector Mechanics for Engineers* Ferdinand Pierre Beer, Elwood Russell Johnston, 1977 Forthcoming Books Rose Army, 2003-04 *Solutions Manual to Accompany Vector Mechanics for Engineers* ,1996 **Solutions Manual to Accompany Vector Mechanics for Engineers** Ferdinand

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Manual to Accompany Vector Mechanics for Engineer-dynamics Ferdinand Pierre Beer, Elwood Russell Johnston, William E.
Clausen, George Staab, Dean P. Updike, 2004 Vector Mechanics for Engineers: Solutions Manual; Statics Ferdinand Pierre
Beer, Elwood Russell Johnston, 1977 The Cumulative Book Index , 1978 A world list of books in the English language

This book delves into Solution Manual For Vector Mechanics For Engineers 8th Edition. Solution Manual For Vector Mechanics For Engineers 8th Edition is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Solution Manual For Vector Mechanics For Engineers 8th Edition, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 4: Solution Manual For Vector Mechanics For Engineers 8th Edition in Specific Contexts
 - Chapter 5: Conclusion
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