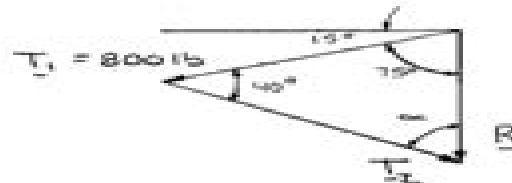




PROBLEM 2.6

A telephone cable is clamped at A to the pole AB . Knowing that the tension in the left-hand portion of the cable is $T_1 = 800$ lb, determine by trigonometry (a) the required tension T_2 in the right-hand portion if the resultant \mathbf{R} of the forces exerted by the cable at A is to be vertical, (b) the corresponding magnitude of \mathbf{R} .

SOLUTION



Using the triangle rule and the law of sines:

(a)

$$\begin{aligned} 75^\circ + 40^\circ + \alpha &= 180^\circ \\ \alpha &= 180^\circ - 75^\circ - 40^\circ \\ &= 65^\circ \end{aligned}$$

$$\frac{800 \text{ lb}}{\sin 65^\circ} = \frac{T_2}{\sin 75^\circ}$$

$$T_2 = 853 \text{ lb} \quad \blacktriangleleft$$

(b)

$$\frac{800 \text{ lb}}{\sin 65^\circ} = \frac{R}{\sin 40^\circ}$$

$$R = 567 \text{ lb} \quad \blacktriangleleft$$

Vector Mechanics For Engineers Chapter 15

Jan Awrejcewicz



Vector Mechanics For Engineers Chapter 15:

EBOOK: Vector Mechanics for Engineers: 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 Vector Mechanics for Engineers Ferdinand Pierre Beer,2001 Since their publication nearly 40 years ago Beer and Johnston s Vector Mechanics for Engineers books have set the standard for presenting statics and dynamics to beginning engineering students The New Media Versions of these classic books combine the power of cutting edge software and multimedia with Beer and Johnston s unsurpassed text coverage The package is also enhanced by a new problems supplement For more details about the new media and problems supplement package components see the New to this Edition section below **Ebook: Vector Mechanics for Engineers: Statics and Dynamics** BEER,2010-10-16 Ebook Vector Mechanics for Engineers Statics and Dynamics EBOOK: Vector Mechanics for Engineers: Statics (SI units) Ferdinand Beer,E. Johnston,David Mazurek,2012-10-16 Target AudienceThis text is designed for the first course in Statics offered in the sophomore year OverviewThe 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.hands-on-mechanics.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>

Quantum Mechanics For Engineers And Material Scientists: An Introduction M P Anantram (Anant), Daryoush Shiri, 2024-01-16 This introductory book is aimed at students of engineering and material science who want to learn the necessary toolboxes of practical quantum mechanics The authors have made sure that all the calculations are complete and they have avoided the usage of the familiar phrase it can be easily shown while being mathematically rigorous Knowledge of the sophomore level introduction to ordinary differential equations is all that is needed Well designed and modern examples help the reader grasp and digest the concept before moving to the next one The book offers a lucid exposition to the modern field of quantum computing and quantum gates two level systems orbitals spin periodic solids tunneling and Fermi golden rule The basics of electronic and optical properties of nanomaterials using the basics of quantum mechanics are presented without the reader getting lost in research articles with different notations and units There are numerous examples in the book covering topics such as carbon nanotubes graphene superconducting qubits principle of scanning tunneling microscopy heterostructure based terahertz generation and negative differential resistance device quantized LC circuit Grover's search algorithm phase kickback quantum dots well nanowires quantum of conductance ballistic conductor spin orbit coupling and spin transistor Authors use analogies based on familiar engineering concepts wherever possible to broaden the view of the reader The philosophy behind the book is teaching by showing how it is done and using pictures which is worth 1000 words

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Analytical Mechanics for Engineers Fred B. Seely, 1958 *Applied Mechanics Reviews*, 1974 **Analytical**

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denotations and definitions of the main mathematical concepts and structures used in the book are included in the appendix making the book useful for enhancing traditional courses of calculus for undergraduates as well as for separate courses for graduate students. The material of Semitopological Vector Spaces, Hypernorms, Hyperseminorms and Operators is closely related to what is taught at colleges and universities. It is possible to use a definite number of statements from the book as exercises for students because their proofs are not given in the book but left for the reader.

Mathematica for Physicists and Engineers K. B. Vijaya Kumar, Antony P. Monteiro, 2023-06-05. *Mathematica for Physicists and Engineers* Hands on textbook for learning how to use Mathematica to solve real life problems in physics and engineering. *Mathematica for Physicists and Engineers* provides the basic concepts of Mathematica for scientists and engineers, highlights Mathematica's several built-in functions, demonstrates mathematical concepts that can be employed to solve problems in physics and engineering, and addresses problems in basic arithmetic to more advanced topics such as quantum mechanics. The text views mathematics and physics through the eye of computer programming, fulfilling the needs of students at master's levels and researchers from a physics and engineering background, and bridging the gap between the elementary books written on Mathematica and the reference books written for advanced users. *Mathematica for Physicists and Engineers* contains information on Basics to Mathematica, its nomenclature and programming language, and possibilities for graphic output. Vector calculus, solving real complex and matrix equations and systems of equations, and solving quantum mechanical problems in infinite dimensional linear vector spaces. Differential and integral calculus in one and more dimensions, and the powerful but elusive Dirac Delta function. Fourier and Laplace transform, two integral transformations that are instrumental in many fields of physics and engineering for the solution of ordinary and partial differential equations. Serving as a complete first course in Mathematica to solve problems in science and engineering, *Mathematica for Physicists and Engineers* is an essential learning resource for students in physics and engineering, master's students in material sciences, geology, biological sciences, theoretical chemists. Also, lecturers in these and related subjects will benefit from the book.

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.

Fundamentals of Modern Manufacturing Mikell P. Groover, 2021. *Fundamentals of Modern Manufacturing: Materials, Processes, and Systems* is designed for a first course or two course sequence in manufacturing at the junior or senior level in mechanical, industrial, and manufacturing engineering curricula. The distinctive and modern approach of the book emerges from its balanced coverage of the basic engineering materials, the inclusion of recent manufacturing processes, and comprehensive coverage of electronics manufacturing technologies. The quantitative focus of the text is displayed in its emphasis on manufacturing science, greater use of mathematical models, and end-of-chapter problems. This International

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