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5.1–5.2) Cable AC is 70 ft long, and the tension in that cable is 5250 lb. Determine

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Solutions for Vector Mechanics For Engineers Statics and Dynamics (physics, engineering) Ferdinand P. Beer, E. Russell Johnston, Jr., David F. Mazurek, Phillip J. Cornwell, Brian P. Self. Find all the textbook answers and step-by-step explanations below

Solutions for Vector Mechanics For Engineers Stat...
 $F_x = F \cos \theta$, $F_y = F \sin \theta$
Fig. 2.16 Unit vectors along the x and y axes. \mathbf{i} and \mathbf{j} are unit vectors along the x and y axes. Magnitude = 1. In a parallel text, Mechanics for Engineers, fifth edition, the use of vector algebra is limited to the addition and subtraction of vectors, and vector differentiation is omitted.

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Vector Mechanics for Engineers: Statics and Dynamics. 12th Edition. by Ferdinand Beer (Author), E. Johnston (Author), David Mazurek (Author), Phillip Cornwell (Author), Brian Self (Author) & 2 more. 4.0 out of 5 stars 32 ratings. ISBN-13: 978-1259638091.

Statics of particles -- Rigid bodies: equivalent systems of forces -- Equilibrium of rigid bodies -- Distributed forces: centroids and centers of gravity -- Analysis of structures -- Internal forces and moments -- Friction -- Distributed forces: moments of inertia -- Method of virtual work -- Kinematics of particles -- Kinetics of particles: Newton's second law -- Kinetics of particles: energy and momentum methods -- Systems of particles -- Kinematics of rigid bodies -- Plane motion of rigid bodies: forces and accelerations -- Plane motion of rigid bodies: energy and momentum methods -- Kinetics of rigid bodies in three dimensions -- Mechanical vibrations

Vector Mechanics for Engineers: Statics provides conceptually accurate and thorough coverage, and its problem-solving methodology gives students the best opportunity to learn statics. This new edition features a significantly refreshed problem set. Key Features Chapter openers with real-life examples and outlines previewing objectives Careful, step-by-step presentation of lessons Sample problems with the solution laid out in a single page, allowing students to easily see important key problem types Solving

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A primary objective in a first course in mechanics is to help develop a student's ability first to analyze problems in a simple and logical manner, and then to apply basic principles to their solutions. A strong conceptual understanding of these basic mechanics principles is essential for successfully solving mechanics problems. This edition of Vector Mechanics for Engineers will help instructors achieve these goals. Continuing in the spirit of its successful previous editions, this edition provides conceptually accurate and thorough coverage together with a significant refreshment of the exercise sets and online delivery of homework problems to your students. The 12th edition has added one case study per chapter and enhancements throughout the text and in Connect. The hallmark of the Beer-Johnston series has been the problem sets. This edition is no different. Over 650 of the homework problems in the text are new or revised. One of the characteristics of the approach used in this book is that mechanics of particles is clearly separated from the mechanics of rigid bodies. This approach makes it possible to consider simple practical applications at an early stage and to postpone the introduction of the more difficult concepts.

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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 and Dynamics" continues this tradition.

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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 new problems supplements for both statics and dynamics. For more

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