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Beer and Johnston. This is the 1988 version of this standard text. The authors have written an introductory text of about 1000 pages which covers the standard content of a typical undergraduate education in Mechanics.

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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. $i^2 = j^2 = -1$ 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.

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 Problems on Your Own boxes that prepare students for the problem sets Forty percent of the problems updated from the previous edition

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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. Additionally, Connect has over 100 Free-Body Diagram Tool Problems and Process-Oriented Problems. McGraw-Hill's Connect, is also available. Connect is the only integrated learning system that empowers students by continuously adapting to deliver precisely what they need, when they need it, how they need it, so that class time is more effective. Connect allows the professor to assign homework, quizzes, and tests easily and automatically grades and records the scores of the student's work. Problems are randomized to prevent sharing of answers and may also have a "multi-step solution" which helps move the students' learning along if they experience difficulty.

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