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REFERENCES: Beer and Johnston, Mechanics for Engineers, McGraw-Hill. Ginsberg and Genin, Statics and Dynamics, Wiley. Higdon and Stiles, Engineering Mechanics ...

Chapter 3: Mechanics of Solids and Fluids

Mechanics of Engineering Materials, 2nd ed ... (SI), Hibbeler, Pearson 2013 B Mechanics of Materials, 5th ed. , Beer, Johnston, DeWolf, Mazurek, 2009 The Feedback Plan is generally unchanged from last ...

MEC202 Mechanics of Deformable Solids

All of these enhancements are enabling designers to develop new and improved medical devices. 1. Beer and Johnston,

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eds., *Mechanics of Materials* (New York: McGraw-Hill, 1981), 325–327. 2. Baxter ...

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Gregory M. Odegard

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Rhoads is a Professor in the School of Mechanical Engineering at Purdue University ... Outstanding Young Faculty Scholar Award; the ASEE Mechanics Division's Ferdinand P. Beer and E. Russell Johnston, ...

Dr. Jeff Rhoads

Ron Johnston of Atascadero worked for what was then called Apple Computer Inc. in Cupertino as a software engineering manager ... no respect for the day-to-day mechanics of finance, operations ...

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Winter : Sec 20 MW 1-2:20pm, F 1-1:50pm; Sec 21 MW 2:30-3:50pm, F 2-2:50pm ; C. Sun This course meets four times per week for 50-minute lectures.

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Edward Berger is an Associate Professor of Engineering Education and Mechanical Engineering at Purdue University, joining Purdue in August 2014. He has been teaching mechanics for nearly 20 years, and ...

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Equilibrium of rigid bodies -- Distributed
forces: centroids and centers of gravity --
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momentum methods -- Systems of

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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

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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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

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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 new case studies and enhancements in 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

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Johnston 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 Education'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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Continuing in the spirit of its successful previous editions, the ninth 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.

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