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This text presents the foundations and applications of statics by emphasizing the importance of visual analysis of topics—especially through the use of free body diagrams. This text also promotes a problem-solving approach to solving examples through its strategy, solution, discussion format in examples. Bedford/Fowler further includes design and computational examples that help instructors integrate these ABET 2000 requirements. FEATURES/BENEFITS NEW--Strategy-Solution- Discussion--Most examples follow this format. Promotes students thinking critically about the example vs. rote memorization. NEW--Engineering Design—Includes "Application to Engineering" examples that provide discussions of the uses of dynamics in engineering design. NEW--Emphasizes Application--Text places dynamics within the context of engineering practice by including applications from many fields of engineering. NEW--Optional Student Software--Working Model-based Simulation Software specifically for Bedford/Fowler. NEW--Computational Mechanics Examples--Provide optional self-contained examples designed to introduce students to the use of computers in engineering. Professors can use any programming language, or math solver of their choice. NEW--Extended discussion of normal and tangential components (Ch. 2)--Includes 3D motion. NEW--A revised discussion of reference frames--Throughout the text, especially in Chs. 2 and 6. NEW--Expanded/improved discussion of several topics--e.g., impulsive forces, 2D rigid-body kinematics, D'Alembert's principle, and angular impulse and momentum. NEW--Expanded discussion of 3D rigid body dynamics (Ch. 9)--

Includes new examples and problems. NEW--More than 20% new and revised chapter-end problems. Engineering Mechanics: Dynamics, Second Edition. This book has quickly earned a place in Engineering schools across the country because it teaches engineering mechanics the way a good instructor would. Problem Solving Uses a "Strategy-Solution-Discussion" problem-solving methodology that explains how to approach problems, solve them, and critically judge the results. Contains "Computational Mechanics" feature with examples and problems that introduce the reader to computer applications in engineering mechanics. Visualization Stresses the importance of visual analysis, especially the use of free-body diagrams. Develops figures gradually and employs "ghosting" techniques to clarify and emphasize concepts-- emulating the way an instructor teaches. Applications Places engineering mechanics within the context of engineering practice by including applications from many fields of engineering. Introduces design principles with the "Application to Engineering" feature using concepts developed in preceding sections of the chapter. New Features Visualization Provides more free-body diagrams to many of the worked examples. Separates most of the diagrams showing velocities, accelerations, and forces into a free-body diagram showing the forces and a kinematic diagram showing the accelerations. Content Extends the discussion of normal and tangential components in Chapter 2 to include three-dimensional motion. Includes a revised discussion of reference frames throughout the text, especially in Chapters 2 and 6. Improves the discussion of impulsive forces in Chapter 5. Improves the discussion of 2D rigid-body kinematics in Chapter 6. Expands and improves the discussion of D'Alembert's principle in Chapter 7. Provides a revised and improved discussion of angular impulse and momentum in Chapter 8. Expands the discussion of 3D rigid body dynamics in Chapter 9 and provides new examples and problems. Offers several new examples throughout the text including more of the popular feature, "Application to Engineering". Includes more than 20% new and revised end-of-chapter problems. Organization Presents section on Orbital Mechanics in Chapter 3. "An introduction to engineering mechanics that offers carefully balanced, authoritative coverage of statics. The authors use a Strategy-Solution-Discussion method for problem solving that explains how to approach problems, solve them, and critically judge the results. The book stresses the importance of visual analysis, especially the use of free-body diagrams. Incisive applications place engineering mechanics in the context of practice with examples from many fields of engineering." (Midwest). For core Introductory Statics and Mechanics of Materials courses found in mechanical, civil, aeronautical, or engineering mechanics departments. This text presents the foundations and applications of statics and mechanics of materials by emphasizing the importance of visual analysis of topics--especially through the use of free body diagrams. It also promotes a problem-solving approach to solving examples through its strategy, solution, and discussion format in examples. The authors further include design and computational examples that help instructors integrate these ABET 2000 requirements. More than just a book, this volume is part of a system to teach engineering mechanics, a system comprised of three components: 1) this core principles book, 2) algorithmic problem material available online, and 3) a course management system to track and monitor student progress. KEY TOPICS Chapter topics cover vectors; forces; systems of forces and moments; objects and structures in equilibrium; centroids and centers of mass; moments of inertia; friction; internal forces and moments; virtual work and potential energy; motion of a point; force, mass, and acceleration; energy and momentum methods; planar kinematics of rigid bodies; planar dynamics of rigid bodies; energy and momentum in rigid body dynamics; three-dimensional kinematics and dynamics of rigid bodies; and vibrations. For individuals preparing for a career in engineering mechanics. Includes Workbook, Working Model CD-ROM, Website Access Code. For second-year Introductory courses taught in departments of Mechanical, Civil, Aerospace, General, and Engineering Mechanics. More than just a book, this text is part of a system to teach engineering mechanics, a system comprised of three components: 1) this core principles book, 2) algorithmic problem material available online, and 3) a course management system to track and monitor student progress. By using this system, instructors and their students benefit from increased flexibility in the ability to assign and grade problems, and the ability to make sure each student works a "unique" version of a problem, all coming at a lower price and in a smaller package. "New to This Edition In response to suggestions by students and instructors, we have clarified our discussions of many topics, including units used to describe angles, force resultants, friction in threads, kinetic energy of a rigid body, and orbital mechanics. We have added new examples, continuing our use of the Strategy/Solution/Critical Thinking structure. To supplement our coverage, we invited Professor Kenneth M. Liechti of the University of Texas at Austin to contribute a discussion of modern developments in dry friction in Chapter 9. Thirty percent of the problems have been revised or replaced. Problems that are relatively lengthier or more difficult are marked with an asterisk"-- While covering the basic principles of mechanics in an example-driven format, this innovative book emphasizes critical thinking by presenting the reader with engineering situations. Compelling photorealistic art, and a robust photograph program helps readers to connect visually to the topics discussed. Features strong coverage of FBDs and important ABET topics. For professionals in mechanical, civil, aeronautical, or engineering mechanics fields. ALERT: Before you purchase, check with your instructor or review your course syllabus to ensure that you select the correct ISBN. Several versions of Pearson's MyLab & Mastering products exist for each title, including customized versions for individual schools, and registrations are not transferable. In addition, you may need a CourseID, provided by your instructor, to register for and use Pearson's MyLab & Mastering products. Packages Access codes for Pearson's MyLab & Mastering products may not be included when purchasing or renting from companies other than Pearson; check with the seller before completing your purchase. Used or rental books If you rent or purchase a used book with an access code, the access code may have been redeemed previously and you may have to purchase a new access code. Access codes Access codes that are purchased from sellers other than Pearson carry a higher risk of being either the wrong ISBN or a previously redeemed code. Check with the seller prior to purchase. -- "Based on Engineering mechanics--dynamics by Anthony Bedford and Wallace Fowler"--T.p. verso. While covering the basic principles of mechanics in an example-driven format, this innovative book emphasizes critical thinking by presenting the reader with engineering situations. Compelling photorealistic art, and a robust photograph program helps readers to connect visually to the topics discussed. Features strong coverage of FBDs and important ABET topics. For professionals in mechanical, civil, aeronautical, or engineering mechanics fields. In Engineering Mechanics: Dynamics, Anthony Bedford and Wallace Fowler present the foundations and applications of dynamics as they do in the classroom. The authors explain each concept using carefully developed figures, easy-to-follow examples, and real-world problems to enhance understanding. Throughout the book, the authors strive to keep students motivated by placing the subject matter in an engineering context. The Bedford/Fowler textbook continues to be successful because it teaches engineering mechanics the way good instructors do. This textbook teaches students the basic mechanical behaviour of materials at rest (statics), while developing their mastery of engineering methods of analysing and solving problems. Like its

companion volume Dynamics, Statics teaches students how to think like engineers by putting the emphasis where it belongs but has rarely been found -on problem solving in engineering mechanics in a professional context This work and its companion, Statics, deliver a consistent problem-solving methodology for statics and present a precise and accurate treatment of the fundamentals of dynamics. Features include: real world applications; chapter openers illustrating an application of the ideas in the chapter; and the use of visualization techniques which isolate the figures which should be studied. "This book presents the foundations and applications of statics by emphasizing the importance of visual analysis of topics--especially through the use of free body diagrams. It also promotes a problem-solving approach to solving examples through its strategy, solution, and discussion format. The authors further include design and computational examples that help integrate these ABET 2000 requirements. Features strong coverage of FBDs and free-body and kinetic diagrams. Chapter topics include: Vectors; Forces; Systems of Forces and Moments; Objects in Equilibrium; Structures In Equilibrium; Centroids and Centers of Mass; Moments of Inertia; Friction; Internal Forces and Moments; Virtual Work and Potential Energy; Motion of a Point; Force, Mass, and Acceleration; Energy Methods; Momentum Methods; Planar Kinematics of Rigid Bodies; Planar Dynamics of Rigid Bodies; Energy and Momentum in Rigid Body Dynamics; Three-Dimensional Kinematics and Dynamics of Rigid Bodies; Vibration. For professionals in mechanical, civil, aeronautical, or engineering mechanics fields." -- Publisher. ALERT: Before you purchase, check with your instructor or review your course syllabus to ensure that you select the correct ISBN. Several versions of Pearson's MyLab & Mastering products exist for each title, including customized versions for individual schools, and registrations are not transferable. In addition, you may need a CourseID, provided by your instructor, to register for and use Pearson's MyLab & Mastering products. Packages Access codes for Pearson's MyLab & Mastering products may not be included when purchasing or renting from companies other than Pearson; check with the seller before completing your purchase. Used or rental books If you rent or purchase a used book with an access code, the access code may have been redeemed previously and you may have to purchase a new access code. Access codes Access codes that are purchased from sellers other than Pearson carry a higher risk of being either the wrong ISBN or a previously redeemed code. Check with the seller prior to purchase. -- ALERT: Before you purchase, check with your instructor or review your course syllabus to ensure that youselect the correct ISBN. Several versions of Pearson's MyLab & Mastering products exist for each title, including customized versions for individual schools, and registrations are not transferable. In addition,you may need a CourseID, provided by your instructor, to register for and use Pearson's MyLab & Mastering products. Packages Access codes for Pearson's MyLab & Mastering products may not be included when purchasing or renting from companies other than Pearson; check with the seller before completing your purchase. Used or rental books If you rent or purchase a used book with an access code, the access code may have been redeemed previously and you may have to purchase a new access code. Access codes Access codes that are purchased from sellers other than Pearson carry a higher risk of being either the wrong ISBN or a previously redeemed code. Check with the seller prior to purchase. -- This textbook is designed for introductory statics courses found in mechanical engineering, civil engineering, aeronautical engineering, and engineering mechanics departments. It better enables students to learn challenging material through effective, efficient examples and explanations.

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