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Containing Hibbelers hallmark student-oriented features, this text is in four-colour with a photo realistic art program designed to help students visualise difficult concepts. A clear, concise writing style and more examples than any other text further contribute to students ability to master the material.

STEEL DESIGN covers the fundamentals of structural steel design with an emphasis on the design of members and their connections, rather than the integrated design of buildings. The book is designed so that instructors can easily teach LRFD, ASD, or both, time-permitting. The application of fundamental principles is encouraged for design procedures as well as for practical design, but a theoretical approach is also provided to enhance student development. While the book is intended for junior-and senior-level engineering students, some of the later chapters can be used in graduate courses and practicing engineers will find this text to be an essential reference tool for reviewing current practices. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

CD-ROM contains: the limited academic version of Engineering equation solver(EES) with homework problems.

Engineering Mechanics: Combined Statics & Dynamics, Twelfth Edition is ideal for civil and mechanical engineering professionals. In his substantial revision of Engineering Mechanics, R.C. Hibbeler empowers students to succeed in the whole learning experience. Hibbeler achieves this by calling on his everyday classroom experience and his knowledge of how students learn inside and outside of lecture. In addition to over 50% new homework problems, the twelfth edition introduces the new elements of Conceptual Problems, Fundamental Problems and MasteringEngineering, the most technologically advanced online tutorial and homework system.

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The 7th edition of this classic text continues to provide the same high quality material seen in previous editions. The text is extensively rewritten with updated prose for content clarity, superb new problems in new application areas, outstanding instruction on drawing free body diagrams, and new electronic supplements to assist readers. Furthermore, this edition offers more Web-based problem solving to practice solving problems, with immediate feedback; computational mechanics booklets offer flexibility in introducing Matlab, MathCAD, and/or Maple into your mechanics classroom; electronic figures from the text to enhance lectures by pulling material from the text into Powerpoint or other lecture formats; 100+ additional electronic transparencies offer problem statements and fully worked solutions for use in lecture or as outside study tools.

Intended for undergraduate-level courses in Fluid Mechanics or Hydraulics in Mechanical, Chemical, and Civil Engineering Technology and Engineering programs. This text covers various basic principles of fluid mechanics - both statics and dynamics.

Plesha, Gray, and Costanzo's "Engineering Mechanics: Dynamics" presents the fundamental concepts clearly, in a modern context, using applications and pedagogical devices that connect with today's students.

MasteringEngineering. The most technologically advanced online tutorial and homework system. MasteringEngineering is designed to provide students with customized coaching and individualized feedback to help improve problem-solving skills while providing instructors with rich teaching diagnostics.

Praised for its accessible tone and extensive problem sets, this trusted text familiarizes students with the universal principles of engineering economics. This essential introduction features a wealth of specific Canadian examples and has been fully updated with new coverage of inflation and environmental stewardship as well as a new chapter on project management.

Sets the standard for introducing the field of comparative politics This text begins by laying out a proven analytical framework that is accessible for students new to the field. The framework is then consistently implemented in twelve authoritative country cases, not only to introduce students to what politics and governments are like around the world but to also understand the importance of their similarities and differences. Written by leading comparativists and area study specialists, Comparative Politics Today helps to sort through the world's complexity and to recognize patterns that lead to genuine political insight. MyPoliSciLab is an integral part of the Powell/Dalton/Strom program. Explorer is a hands-on way to develop quantitative literacy and to move students beyond punditry and opinion. Video Series features Pearson authors and top scholars discussing the big ideas in each chapter and applying them to enduring political issues. Simulations are a game-like opportunity to play the role of a political actor and apply course concepts to make realistic political decisions. 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.

Pearson introduces yet another textbook from Professor R. C. Hibbeler - Fluid Mechanics in SI Units - which continues the author's commitment to empower students to master the subject.

For introductory combined Statics and Mechanics of Materials courses found in ME, CE, AE, and Engineering Mechanics departments. Statics and Mechanics of Materials provides a comprehensive and well-illustrated introduction to the theory and application of statics and mechanics of materials. The text presents a commitment to the development of student problem-solving skills and features many pedagogical aids unique to Hibbeler texts. MasteringEngineering for Statics and Mechanics of Materials is a total learning package. This innovative online program emulates the instructor's office-hour environment, guiding students through engineering concepts from Statics and Mechanics of Materials with self-paced individualized coaching. Teaching and Learning Experience This program will provide a better teaching and learning experience--for you and your students. It provides: Individualized Coaching: MasteringEngineering emulates the instructor's office-hour environment using self-paced individualized coaching. Problem Solving: A large variety of problem types stress practical, realistic situations encountered in professional practice. Visualization: The photorealistic art program is designed to help students visualize difficult concepts. Review and Student Support: A thorough end of chapter review provides students with a concise reviewing tool. Accuracy: The accuracy of the text and problem solutions has been thoroughly checked by four other parties. Note: If you are purchasing the standalone text or electronic version, MasteringEngineering does not come automatically packaged with the text. To purchase MasteringEngineering, please visit: masteringengineering.com or you can purchase a package of the physical text + MasteringEngineering by searching the Pearson Higher Education website. MasteringEngineering is not a self-paced technology and should only be purchased when required by an instructor.

Thinking Like an Engineer: An Active Learning Approach, 2e, is specifically designed to utilize an active learning environment for first year engineering courses. In-class activities include collaborative problem-solving, computer-based activities, and hands-on experiments, encouraging guided inquiry. Homework assignments and review sections reinforce and expand on the activities. Content can be customized to match the topic organization in your course syllabi. Paired with Pearson's new MyEngineeringLab, Thinking Like an Engineer, 2e, is a complete digital solution for your first year engineering course. MyEngineeringLab offers students customized, self-paced learning with instant feedback. Students will be prepared ahead of class, allowing you to spend class time focusing on active learning. Subscriptions to MyEngineeringLab are available to purchase online or packaged with your textbook (unique ISBN). Use the following ISBNs to purchase MyEngineeringLab: Thinking Like an Engineer, 2e & MyEngineeringLab with Pearson eText Student Access Code Card for Thinking Like an Engineer, 2e ISBN: 0132981386 This package includes the Thinking Like an Engineer, 2e textbook, an access card for MyEngineeringLab, and a Pearson eText Student Access Code Card for Thinking Like an Engineer, 2e. MyEngineeringLab with Pearson eText -- Access Card -- for Thinking Like an Engineer, 2e ISBN: 0132766744 This stand-alone access card package contains an access code for MyEngineeringLab, and a Pearson eText student access code card for Thinking Like an Engineer, 2e eText.

Comprehensive Reference Manual for the NCEES PE Mechanical Exams The Mechanical Engineering Reference Manual is the most comprehensive textbook for the three NCEES PE Mechanical exams: HVAC and Refrigeration, Machine Design and Materials, Thermal and Fluid Systems. This book's time-tested organization and clear explanations start with the basics to help you quickly get up to speed on common mechanical engineering concepts. Together, the 75 chapters provide an in-depth review of the PE Mechanical exam topics and the NCEES Handbook. Michael R. Lindeburg's Mechanical Engineering Reference Manual has undergone an intensive transformation in this 14th edition to ensure focused study for success on the 2020 NCEES computer-based tests (CBT). As of April 2020, exams are offered year-round at approved Pearson Vue testing centers. The only resource examinees can use during the test is the NCEES PE Mechanical Reference Handbook. To succeed on exam day, you need to know how to solve problems using that resource. The Mechanical Engineering Reference Manual, 14th Edition makes that connection for you by using only NCEES equations in the review and problem solving. Topics Covered Fluids Thermodynamics Power Cycles Heat Transfer HVAC Statics Materials Machine Design Dynamics and Vibrations Control Systems Plant Engineering Economics Law and Ethics Key Features Improved design to focus study on most important PE exam material Explanations and demonstration of how to use NCEES handbook equations NCEES handbook equations are highlighted in blue for quick access In chapter callouts map to the specific PE exam to streamline review process Extensive index contains thousands of entries, with multiple entries included for each topic Binding: Hardcover Publisher: PPI, A Kaplan Company

This is a review book for people planning to take the PE exam in Chemical Engineering. Prepared specifically for the exam used in all 50 states. It features 188 new PE problems with detailed step by step solutions. The book covers all topics on the exam, and includes easy to use tables, charts, and formulas. It is an ideal desk companion to DAS's Chemical Engineer License Review. It includes sixteen chapters and a short PE sample exam as well as complete references and an index. Chapters include the following topical areas: * Material and energy balances * Fluid dynamics * Heat transfer * Evaporation * Distillation * Absorption * Leaching * Liq-liq extraction * Psychrometry and humidification * Drying * Filtration * Thermodynamics * Chemical kinetics * Process control * Mass transfer * Plant safety The ideal study guide, this book brings all elements of professional problem solving together in one BIG BOOK. It is also an ideal desk reference, and it answers hundreds of the most frequently asked questions. It is the first truly practical, no-nonsense problem and solution book for the difficult PE exam. Full step-by-step solutions are additionally included.

NOTE: You are purchasing a standalone product; MasteringEngineering does not come packaged with this content. If you would like to purchase both the physical text and MasteringEngineering search for 013411700X / 9780134117003 Engineering Mechanics: Statics & Dynamics plus MasteringEngineering with Pearson eText -- Access Card Package, 14/e Package consists of: * 0133915425 / 9780133915426 Engineering Mechanics: Statics & Dynamics * 0133941299 / 9780133941296 MasteringEngineering with Pearson eText -- Standalone Access Card -- for Engineering Mechanics: Statics & Dynamics MasteringEngineering should only be purchased when required by an instructor. A Proven Approach to Conceptual Understanding and Problem-solving Skills Engineering Mechanics: Statics & Dynamics excels in providing a clear and thorough presentation of the theory and application of engineering mechanics. Engineering Mechanics empowers students to succeed by drawing upon Professor Hibbeler's everyday classroom experience and his knowledge of how students learn. This text is shaped by the comments and suggestions of hundreds of reviewers in the teaching profession, as well as many of the author's students. The Fourteenth Edition includes new Preliminary Problems, which are intended to help students develop conceptual understanding and build problem-solving skills. The text features a large variety of problems from a broad range of engineering disciplines, stressing practical, realistic situations encountered in professional practice, and having varying levels of difficulty. Also Available with MasteringEngineering -- an online homework, tutorial, and assessment program designed to work with this text to engage students and improve results. Interactive, self-paced tutorials provide individualized coaching to help students stay on track. With a wide range of activities available, students can actively learn, understand, and retain even the most difficult concepts. The text and MasteringEngineering work together to guide students through engineering concepts with a multi-step approach to problems.

MasteringEngineering SI, the most technologically advanced online tutorial and homework system available, can be packaged with this edition. Were you looking for the book with access to MasteringEngineering? This product is the book alone, and does NOT come with access to MasteringEngineering. Buy Mechanics for Engineers: Dynamics, SI edition with MasteringEngineering access card 13e (ISBN 9781447951421) if you need access to Mastering as well, and save money on this brilliant resource. In his revision of Mechanics for Engineers, 13e, SI Edition, R.C. Hibbeler empowers students to succeed in the whole learning experience. Hibbeler achieves this by calling on his everyday classroom experience and his knowledge of how students learn inside and outside of lectures. Need extra support? This product is the book alone, and does NOT come with access to MasteringEngineering. This title can be supported by MasteringEngineering, an online homework and tutorial system which can be used by students for self-directed study or fully integrated into an instructor's course. You can benefit from MasteringEngineering at a reduced price by purchasing a pack containing a copy of the book and an access card for MasteringEngineering: Mechanics for Engineers: Dynamics, SI edition with MasteringEngineering access card 13e (ISBN 9781447951421). Alternatively, buy access to MasteringEngineering and the eText - an online version of the book - online at www.masteringengineering.com. For educator access, contact your Pearson Account Manager. To find out who your account manager is, visit www.pearsoned.co.uk/replocator

A one-stop Desk Reference, for Biomedical Engineers involved in the ever expanding and very fast moving area; this is a book that will not gather dust on the shelf. It brings together the essential professional reference content from leading international contributors in the biomedical engineering field. Material covers a broad range of topics including: Biomechanics and Biomaterials; Tissue Engineering; and Biosignal Processing * A fully searchable Mega Reference Ebook, providing all the essential material needed by Biomedical and Clinical Engineers on a day-to-day basis. * Fundamentals, key techniques, engineering best practice and rules-of-thumb together in one quick-reference. * Over 2,500 pages of reference material, including over 1,500 pages not included in the print edition

Free body diagram worksheets and chapter reviews for Engineering Mechanics Statics Fifth Edition. Also includes MATLAB and Mathcad tutorials.

This textbook introduces undergraduate students to engineering dynamics using an innovative approach that is at once accessible and comprehensive. Combining the strengths of both beginner and advanced dynamics texts, this book has students solving dynamics problems from the very start and gradually guides them from the basics to increasingly more challenging topics without ever sacrificing rigor. Engineering Dynamics spans the full range of mechanics problems, from one-dimensional particle kinematics to three-dimensional rigid-body dynamics, including an introduction to Lagrange's and Kane's methods. It skillfully blends an easy-to-read, conversational style with careful attention to the physics and mathematics of engineering dynamics, and emphasizes the formal systematic notation students need to solve problems correctly and succeed in more advanced courses. This richly illustrated textbook features numerous real-world examples and problems, incorporating a wide range of difficulty; ample use of MATLAB for solving problems; helpful tutorials; suggestions for further reading; and detailed appendixes. Provides an accessible yet rigorous introduction to engineering dynamics Uses an explicit vector-based notation to facilitate understanding Professors: A supplementary Instructor's Manual is available for this book. It is restricted to teachers using the text in courses. For information on how to obtain a copy, refer to: http://press.princeton.edu/class_use/solutions.html

The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed. Engineering Mechanics:

Statics excels in providing a clear and thorough presentation of the theory and application of engineering mechanics. Engineering Mechanics empowers students to succeed by drawing upon Prof. Hibbeler's everyday classroom experience and his knowledge of how students learn. This text is shaped by the comments and suggestions of hundreds of reviewers in the teaching profession, as well as many of the author's students. The 14th Edition includes new Preliminary Problems, which are intended to help students develop conceptual understanding and build problem-solving skills. The text features a large variety of problems from a broad range of engineering disciplines, stressing practical, realistic situations encountered in professional practice, and having varying levels of difficulty.

Offers a concise yet thorough presentation of engineering mechanics theory and application. The material is reinforced with numerous examples to illustrate principles and imaginative, well-illustrated problems of varying degrees of difficulty. The book is committed to developing users' problem-solving skills. Features "Photorealistic" figures (approximately 200) that have been rendered in often 3D photo quality detail to appeal to visual learners. Features a large variety of problem types from a broad range of engineering disciplines, stressing practical, realistic situations encountered in professional practice, varying levels of difficulty, and problems that involve solution by computer. A thorough presentation of engineering mechanics theory and applications includes some of these topics: Force Vectors; Equilibrium of a Particle; Force System Resultants; Equilibrium of a Rigid Body; Structural Analysis; Internal Forces; Friction; Center of Gravity and Centroid; Moments of Inertia; and Virtual Work. For professionals in mechanical engineering, civil engineering, aeronautical engineering, and engineering mechanics careers

This is a review book for people planning to take the PE exam in Chemical Engineering. Prepared specifically for the exam used in all 50 states. It features 188 new PE problems with detailed step by step solutions. The book covers all topics on the exam, and includes easy to use tables, charts, and formulas. It is an ideal desk Companion to DAS's Chemical Engineer License Review. It includes sixteen chapters and a short PE sample exam as well as complete references and an index. Chapters include the following topical areas: material and energy balances; fluid dynamics; heat transfer; evaporation; distillation; absorption; leaching; liq-liq extraction; psychrometry and humidification, drying, filtration, thermodynamics, chemical kinetics, process control, mass transfer, and plant safety. The ideal study guide, this book brings all elements of professional problem solving together in one BIG BOOK. Ideal desk reference. Answers hundreds of the most frequently asked questions. The first truly practical, no-nonsense problems and solution book for the difficult PE exam. Full step-by-step solutions are included.

For undergraduate Mechanics of Materials courses in Mechanical, Civil, and Aerospace Engineering departments. Hibbeler continues to be the most student friendly text on the market. The new edition offers a new four-color, photorealistic art program to help students better visualize difficult concepts. Hibbeler continues to have over 1/3 more examples than its competitors, Procedures for Analysis problem solving sections, and a simple, concise writing style. Each chapter is organized into well-defined units that offer instructors great flexibility in course emphasis. Hibbeler combines a fluid writing style, cohesive organization, outstanding illustrations, and dynamic use of exercises, examples, and free body diagrams to help prepare tomorrow's engineers.

"Study of statics and mechanics of materials is based on the understanding of a few basic concepts and on the use of simplified models. This approach makes it possible to develop all the necessary formulas in a rational and logical manner, and to clearly indicate the conditions under which they can be safely applied to the analysis and design of actual engineering structures and machine components"--

ENGINEERING MECHANICS: STATICS, 4E, written by authors Andrew Pytel and Jaan Kiusalaas, provides readers with a solid understanding of statics without the overload of extraneous detail. The authors use their extensive teaching experience and first-hand knowledge to deliver a presentation that's ideally suited to the skills of today's learners. This edition clearly introduces critical concepts using features that connect real problems and examples with the fundamentals of engineering mechanics. Readers learn how to effectively analyze problems before substituting numbers into formulas -- a skill that will benefit them tremendously as they encounter real problems that do not always fit into standard formulas. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This book provides students with a clear and thorough presentation of the theory and application of structural analysis as it applies to trusses, beams, and frames. Emphases are placed on teaching readers to both model and analyze a structure. A hallmark of the book, "Procedures for Analysis," has been retained in this edition to provide learners with a logical, orderly method to follow when applying theory. Chapter topics include types of structures and loads, analysis of statically determinate structures, analysis of statically determinate trusses, internal loadings developed in structural members, cables and arches, influence lines for statically determinate structures, approximate analysis of statically indeterminate structures, deflections, analysis of statically indeterminate structures by the force method, displacement method of analysis: slope-deflection equations, displacement method of analysis: moment distribution, analysis of beams and frames consisting of nonprismatic members, truss analysis using the stiffness method, beam analysis using the stiffness method, and plane frame analysis using the stiffness method. For individuals planning for a career as structural engineers.

Introductory Statistics is designed for the one-semester, introduction to statistics course and is geared toward students majoring in fields other than math or engineering. This text assumes students have been exposed to intermediate algebra, and it focuses on the applications of statistical knowledge rather than the theory behind it. The foundation of this textbook is Collaborative Statistics, by Barbara Illowsky and Susan Dean. Additional topics, examples, and ample opportunities for practice have been added to each chapter. The development choices for this textbook were made with the guidance of many faculty members who are deeply involved in teaching this course. These choices led to innovations in art, terminology, and practical applications, all with a goal of increasing relevance and accessibility for students. We strove to make the discipline meaningful, so that students can draw from it a working knowledge that will enrich their future studies and help them make sense of the world around them. Coverage and Scope Chapter 1 Sampling and Data Chapter 2 Descriptive Statistics Chapter 3 Probability Topics Chapter 4 Discrete Random Variables Chapter 5 Continuous Random Variables Chapter 6 The Normal Distribution Chapter 7 The Central Limit Theorem Chapter 8 Confidence Intervals Chapter 9 Hypothesis Testing with One Sample Chapter 10 Hypothesis Testing with Two Samples Chapter 11 The Chi-Square Distribution Chapter 12 Linear Regression and Correlation Chapter 13 F Distribution and One-Way ANOVA