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an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. This Schaum's Outline gives you: 729 fully solved problems to reinforce knowledge 1 final practice exam Hundreds of examples with explanations of dynamics concepts Extra practice on topics such as rectilinear motion, curvilinear motion, rectangular components, tangential and normal components, and radial and transverse components Support for all the major textbooks for dynamics courses Access to revised Schaums.com website with access to 25 problem-solving videos and more. Schaum's reinforces the

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main concepts required in your course and offers hundreds of practice questions to help you succeed. Use Schaum's to shorten your study time - and get your best test scores!

Comprehension of complex systems comes from an understanding of not only the behavior of constituent elements but how they act together to form the behavior of the whole.

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together a number of research experts to present some of their latest approaches and future research directions in a language accessible to system theorists. Contributors discuss complex systems such as networks for modeling and control of civil structures, vehicles, robots, biomedical systems, fluid flow systems, and home automation systems. Each chapter provides theoretical and methodological descriptions of a specific application in the control of complex systems, including congestion control in computer networks, autonomous multi-robot docking systems, modeling and control in cancer genomics, and

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backstepping controllers for stabilization of turbulent flow PDEs. With this unique reference, you will discover how complexity is dealt with in different disciplines and learn about the latest methodologies, which are applicable to your own specialty. The balanced mix of theory and simulation presented by Modeling and Control of Complex Systems supplies a strong vehicle for enlarging your knowledge base a fueling future advances and incredible breakthroughs. This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book.

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¿ This resource provides the necessary background in mechanics that is essential in many fields, such as civil, mechanical, construction, architectural, industrial, and manufacturing technologies. The focus is on the fundamentals of material statics and strength and the information is presented using an elementary, analytical, practical approach, without the use of Calculus. To ensure understanding of the concepts, rigorous, comprehensive example problems follow the explanations of theory, and numerous homework problems at the end of each chapter allow for class examples, homework problems, or additional practice for

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students. Updated and completely reformatted, the Sixth Edition of Applied Statics and Strength of Materials features color in the illustrations, chapter-opening Learning Objectives highlighting major topics, updated terminology changed to be more consistent with design codes, and the addition of units to all calculations.

Fundamentals of Thermal-fluid Sciences

Engineering Mechanics: Dynamics 7e Binder Ready Version +

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Statics and Strength of Materials

Engineering Mechanics - Statics, Ninth Edition

Statics 5e Si Version

This text is an unbound, binder-ready

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edition. Known for its accuracy, clarity, and dependability, Meriam & Kraige's Engineering Mechanics: Dynamics has provided a solid foundation of mechanics principles for more than 60 years. Now in its seventh edition, the text continues to help students develop their problem-solving skills with an extensive variety of engaging problems related to engineering design. More than 50% of the homework problems are new, and there are also a number of new sample problems. To help students build necessary visualization and problem-solving skills, the text strongly emphasizes drawing free-body diagrams-the most important skill needed to solve mechanics problems. If Maple is the computer algebra system you need to use for your engineering calculations and graphical output, this reference will be a valuable tutorial for your studies. Written as a guidebook for students taking the Engineering Statics course,

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Solving Statics Problems in Maple will help you with your engineering assignments throughout the course. Over the past 50 years, Meriam & Kraige's Engineering Mechanics: Statics has established a highly respected tradition of Excellence-- A Tradition that emphasizes accuracy, rigor, clarity, and applications. Now completely revised, redesigned, and modernized, the Fifth Edition of this classic text builds on these strengths, adding new problems and a more accessible, student-friendly presentation.

STATICS AND STRENGTH OF MATERIALS, 7/e is fully updated text and presents logically organized, clear coverage of all major topics in statics and strength of materials, including the latest developments in materials technology and manufacturing/construction techniques. A basic knowledge of algebra and trigonometry are the only mathematical

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skills it requires, although several optional sections using calculus are provided for instructors teaching in ABET accredited programs. A new introductory section on catastrophic failures shows students why these topics are so important, and 25 full-page, real-life application sidebars demonstrate the relevance of theory. To simplify understanding and promote student interest, the book is profusely illustrated.

Engineering Mechanics, Binder Ready
Version

Statics and Dynamics

Online Solutions Manual for Engineering
Mechanics

SI Version. Statics

Mechanics of Materials

Over the past 50 years, Meriam & Kraige's Engineering Mechanics: Statics has established a highly

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respected tradition of Excellence—A Tradition that emphasizes accuracy, rigor, clarity, and applications. Now completely revised, redesigned, and modernized, the fifth edition of this classic text builds on these strengths, adding new problems and a more accessible, student-friendly presentation. Solving Statics Problems with Matlab If MATLAB is the operating system you need to use for your engineering calculations and problem solving, this reference will be a valuable tutorial for your studies. Written as a guidebook for students in the Engineering Statics class, it will help you with

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your engineering assignments throughout the course.

Wind energy's bestselling textbook- fully revised. This must-have second edition includes up-to-date data, diagrams, illustrations and thorough new material on: the fundamentals of wind turbine aerodynamics; wind turbine testing and modelling; wind turbine design standards; offshore wind energy; special purpose applications, such as energy storage and fuel production. Fifty additional homework problems and a new appendix on data processing make this comprehensive edition perfect for engineering students. This book offers a complete

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examination of one of the most promising sources of renewable energy and is a great introduction to this cross-disciplinary field for practising engineers. “provides a wealth of information and is an excellent reference book for people interested in the subject of wind energy.” (IEEE Power & Energy Magazine, November/December 2003) “deserves a place in the library of every university and college where renewable energy is taught.” (The International Journal of Electrical Engineering Education, Vol.41, No.2 April 2004) “a very comprehensive and well-organized treatment of the current status of wind power.”

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(Choice, Vol. 40, No. 4, December 2002)

If MathCad is the computer algebra system you need to use for your engineering calculations and graphical output, Harper's Solving Dynamics Problems in MathCad is the reference that will be a valuable tutorial for your studies. Written as a guidebook for students taking the Engineering Mechanics course, it will help you with your engineering assignments throughout the course. Over the past 50 years, Meriam & Kraige's Engineering Mechanics: Dynamics has established a highly respected tradition of Excellence—A Tradition that

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emphasizes accuracy, rigor, clarity, and applications. Now completely revised, redesigned, and modernized, the new fifth edition of this classic text builds on these strengths, adding new problems and a more accessible, student-friendly presentation.

An Introduction to Mechanical Engineering, SI Edition

ENGINEERING

MECHANICS(VOL.1) STATICS

5th Ed.

***Engineering Mechanics-
Dynamics***

***An Introduction to Mechanical Engineering, Enhanced Edition
Engineering Mechanics: Statics,
SI Edition***

AN INTRODUCTION TO

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MECHANICAL ENGINEERING, 4E introduces readers to today's ever-emerging field of mechanical engineering as it instills an appreciation for how engineers design hardware that builds and improves societies around the world. This book is ideal for those completing their first or second year in a college or university's mechanical engineering program. It is also useful for those studying a closely related field. The authors effectively balance timely treatments of technical problem-solving skills, design, engineering analysis, and modern technology to provide the solid mechanical engineering

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foundation readers need for future success. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Over the past 50 years, Meriam & Kraige's Engineering Mechanics: Statics has established a highly respected tradition of Excellence—A Tradition that emphasizes accuracy, rigor, clarity, and applications. Now completely revised, redesigned, and modernized, the fifth edition of this classic text builds on these strengths, adding new problems and a more accessible, student-

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friendly presentation. Solving Statics Problems Using Maple If Maple is the computer algebra system you need to use for your engineering calculations and graphical output, this reference will be a valuable tutorial for your studies.

Written as a guidebook for students in the Engineering Statics class, it will help you with your engineering assignments throughout the course

THE FOURTH EDITION IN SI UNITS of Fundamentals of Thermal-Fluid Sciences presents a balanced coverage of thermodynamics, fluid mechanics, and heat transfer

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packaged in a manner suitable for use in introductory thermal sciences courses. By emphasizing the physics and underlying physical phenomena involved, the text gives students practical examples that allow development of an understanding of the theoretical underpinnings of thermal sciences. All the popular features of the previous edition are retained in this edition while new ones are added. THIS EDITION FEATURES: A New Chapter on Power and Refrigeration Cycles The new Chapter 9 exposes students to the foundations of power generation and refrigeration in a

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well-ordered and compact manner. An Early Introduction to the First Law of Thermodynamics (Chapter 3)
This chapter establishes a general understanding of energy, mechanisms of energy transfer, and the concept of energy balance, thermo-economics, and conversion efficiency. Learning Objectives
Each chapter begins with an overview of the material to be covered and chapter-specific learning objectives to introduce the material and to set goals. Developing Physical Intuition
A special effort is made to help students develop an intuitive feel for underlying physical

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mechanisms of natural phenomena and to gain a mastery of solving practical problems that an engineer is likely to face in the real world.

New Problems A large number of problems in the text are modified and many problems are replaced by new ones. Some of the solved examples are also replaced by new ones.

Upgraded Artwork Much of the line artwork in the text is upgraded to figures that appear more three-dimensional and realistic.

MEDIA RESOURCES: Limited Academic Version of EES with selected text solutions packaged with the text on the Student DVD. The Online

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Learning Center (www.mheducation.asia/olc/cengelFTFS4e) offers online resources for instructors including PowerPoint® lecture slides, and complete solutions to homework problems. McGraw-Hill's Complete Online Solutions Manual Organization System (<http://cosmos.mhhe.com/>) allows instructors to streamline the creation of assignments, quizzes, and tests by using problems and solutions from the textbook, as well as their own custom material.

Wind Energy Explained
Essential Mechanics - Statics
and Strength of Materials with
MATLAB and Octave

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Engineering Mechanics: Statics,
Si Version, Fifth Edition

An Integrated Learning System
Engineering Mechanics

*This text contains
detailed worked solutions
to all the end-of-chapter
exercises in the textbook
Organic Chemistry. Notes
in tinted boxes in the
page margins highlight
important principles and
comments.*

*Statics is the first
volume of a three-volume
textbook on Engineering
Mechanics. The authors,
using a time-honoured
straightforward and
flexible approach, present*

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the basic concepts and principles of mechanics in the clearest and simplest form possible to advanced undergraduate engineering students of various disciplines and different educational backgrounds. An important objective of this book is to develop problem solving skills in a systematic manner. Another aim of this volume is to provide engineering students as well as practising engineers with a solid foundation to help them bridge the gap between undergraduate studies on the one hand

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and advanced courses on mechanics and/or practical engineering problems on the other. The book contains numerous examples, along with their complete solutions. Emphasis is placed upon student participation in problem solving. The contents of the book correspond to the topics normally covered in courses on basic engineering mechanics at universities and colleges. Now in its second English edition, this material has been in use for two decades in Germany, and

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has benefited from many practical improvements and the authors' teaching experience over the years. New to this edition are the extra supplementary examples available online as well as the TM-tools necessary to work with this method.

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

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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

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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.

A Supplement to Accompany Engineering Mechanics: Statics, 5th Edition Dynamics

Engineering Mechanics Statics 6th Edition Update with MATLAB Linear Algebra Supp Calc w/Ana Geo 5th Edition and WileyPLUS Set Study Guide to Accompany Engineering Mechanics Engineering Mechanics 1

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Known for its accuracy, clarity, and dependability, Meriam and Kraige's Engineering Mechanics: Statics Seventh Edition has provided a solid foundation of mechanics principles for more than 60 years. Now in its seventh edition, the text continues to help students develop their problem-solving skills with an extensive variety of engaging problems related to engineering design. More than 50% of the homework

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problems are new, and there are also a number of new sample problems. To help students build necessary visualization and problem-solving skills, the text strongly emphasizes drawing free-body diagrams—the most important skill needed to solve mechanics problems.

This textbook teaches students the basic mechanical behaviour of materials at rest (statics), while developing their mastery

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*of engineering methods
of analysing and solving
problems.*

*Engineering Mechanics,
Binder Ready*

Version Statics Wiley

Steel Design

*Schaum's Outline of
Engineering Mechanics*

*Dynamics, Seventh
Edition*

*Theory, Design and
Application*

Statics

Solving Dynamics

Problems in MathCad A

Supplement to Accompany

Engineering Mechanics:

Dynamics, 5th Edition by

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Meriam & Kraige

Discover today's fascinating, challenging, and constantly changing field of mechanical engineering with Wickert/Lewis' ENHANCED EDITION OF AN INTRODUCTION TO MECHANICAL ENGINEERING, 4th Edition. This engaging book helps you master technical problem-solving skills as you gain a balanced understanding of the latest design, engineering analysis, and advancements in engineering-related technology. The authors use their expertise to

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present engineering as a visual and graphical activity. Nearly 300 photographs and illustrations give you an exciting glimpse into what you will study in later courses and practice in your career. Meaningful content, interspersed with numerous real-world applications and interesting examples, helps you develop the solid foundation in mechanical engineering that you need for future success. Important Notice: Media content referenced within the product

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Market_Desc: · Students·
Professors Special

Features: · Provides a wide variety of high quality problems that are known for their accuracy, realism, applications, and variety. Students benefit from realistic applications that motivate their desire to learn and develop their problem solving skills · Sample Problems with a worked solution step appear throughout providing examples and reinforcing

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important concepts and idea in engineering mechanics · Introductory Problems are simple, uncomplicated problems designed to help students gain confidence with a new topic. These appear in the problem sets following the Sample Problems.

Representative Problems are more challenging than Introductory Problems but are of average difficulty and length. These appear in the problem sets following the Sample Problems. Computer-Oriented Problems are marked with an icon and

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appear in the end-of-
chapter Review Problems.
Review Problems appear at
the end of chapter. Offers
comprehensive coverage of
how to draw free body
diagrams

This package includes a
three-hole punched, loose-
leaf edition of ISBN
9781118393635 and a
registration code for the
WileyPLUS course
associated with the text.
Before you purchase, check
with your instructor or
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technical support, please visit <http://www.wileyplus.com/support>. WileyPLUS registration cards are only included with new products. Used and rental products may not include WileyPLUS registration cards. Known for its accuracy, clarity, and dependability, Meriam and Kraige's Engineering Mechanics: Dynamics has provided a solid foundation of mechanics principles for more than 60 years. Now in its seventh edition, the text continues to help students develop their problem-

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solving skills with an extensive variety of engaging problems related to engineering design. More than 50% of the homework problems are new, and there are also a number of new sample problems. To help students build necessary visualization and problem-solving skills, the text strongly emphasizes drawing free-body diagrams—the most important skill needed to solve mechanics problems.

An Introduction to
Mechanical Engineering
Meriam's Engineering

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Mechanics

Analysis Methods, Flight
Operations, and
Regulations

Modeling and Control of
Complex Systems

Engineering Mechanics

Dynamics 5E Si Version

with Engineering Mechanics

Statics 5E Si Version Set

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

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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.

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

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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.

The revision of this classic text continues to provide the same high quality material seen in previous editions. In addition, the fifth edition provides extensively rewritten, 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 learning and instruction. If you think you have seen Meriam & Kraige before, take another look: it's not what you remember it to be? it's better! * Web-based problem solving (eGrade) gives students opportunity to practice solving problems, with immediate feedback. * Computational mechanics

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booklets offer flexibility in introducing Matlab, MathCAD, and/or Maple into your mechanics classroom * Electronic figures from the text allow you to enhance your lectures by pulling material from the text into your 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 for students.

Engineering Mechanics - Dynamics,
Eighth Edition SI Canadian Version
Solutions Manual to Accompany Organic
Chemistry

Applied Statics and Strength of Materials
Solving Statics Problems in Maple by
Brian Harper t/a Engineering Mechanics
Statics 6th Edition by Meriam and Kraige

Performance of the Jet

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Transport Airplane: Analysis Methods, Flight Operations, and Regulations presents a detailed and comprehensive treatment of performance analysis techniques for jet transport airplanes. Uniquely, the book describes key operational and regulatory procedures and constraints that directly impact the performance of commercial airliners. Topics include: rigid body dynamics; aerodynamic fundamentals; atmospheric models (including standard and non-standard atmospheres); height scales and altimetry; distance and speed

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measurement; lift and drag and associated mathematical models; jet engine performance (including thrust and specific fuel consumption models); takeoff and landing performance (with airfield and operational constraints); takeoff climb and obstacle clearance; level, climbing and descending flight (including accelerated climb/descent); cruise and range (including solutions by numerical integration); payload-range; endurance and holding; maneuvering flight (including turning and pitching maneuvers); total energy concepts; trip fuel planning and

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estimation (including regulatory fuel reserves); en route operations and limitations (e.g. climb-speed schedules, cruise ceiling, ETOPS); cost considerations (e.g. cost index, energy cost, fuel tankering); weight, balance and trim; flight envelopes and limitations (including stall and buffet onset speeds, V-n diagrams); environmental considerations (viz. noise and emissions); aircraft systems and airplane performance (e.g. cabin pressurization, de-/anti icing, and fuel); and performance-related regulatory requirements of the FAA (Federal Aviation

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Administration) and EASA (European Aviation Safety Agency). Key features:

- Describes methods for the analysis of the performance of jet transport airplanes during all phases of flight*
- Presents both analytical (closed form) methods and numerical approaches*
- Describes key FAA and EASA regulations that impact airplane performance*
- Presents equations and examples in both SI (Système International) and USC (United States Customary) units*
- Considers the influence of operational procedures and their impact on airplane*

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performance Performance of the Jet Transport Airplane: Analysis Methods, Flight Operations, and Regulations provides a comprehensive treatment of the performance of modern jet transport airplanes in an operational context. It is a must-have reference for aerospace engineering students, applied researchers conducting performance-related studies, and flight operations engineers.

STEEL DESIGN covers the fundamentals of structural steel design with an emphasis on the design of members and their connections, rather than the

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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

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current practices. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Known for its accuracy, clarity, and dependability, Meriam, Kraige, and Bolton's Engineering Mechanics: Dynamics, 9th Edition has provided a solid foundation of mechanics principles for more than 60 years. This text continues to help students develop their problem-solving skills with an extensive variety of engaging problems related to engineering design. In addition

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to new homework problems, the text includes a number of helpful sample problems. To help students build necessary visualization and problem-solving skills, the text strongly emphasizes drawing free-body diagrams, one of the most important skills needed to solve mechanics problems.

Solving Statics Problems with Matlab

Performance of the Jet Transport Airplane

Solving Statics Problems in Maple

Essential Mechanics - Statics and Strength of Materials with MATLAB and Octave combines

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two core engineering science courses - "Statics" and "Strength of Materials" - in mechanical, civil, and aerospace engineering. It weaves together various essential topics from Statics and Strength of Materials to allow discussing structural design from the very beginning. The traditional content of these courses are reordered to make it convenient to cover rigid body equilibrium and extend it to deformable body mechanics. The e-book covers the most useful topics from both courses with computational support through MATLAB/Octave. The traditional approach for engineering content is emphasized and is rigorously supported through graphics and analysis. Prior knowledge of

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MATLAB is not necessary. Instructions for its use in context is provided and explained. It takes advantage of the numerical, symbolic, and graphical capability of MATLAB for effective problem solving. This computational ability provides a natural procedure for What if? exploration that is important for design. The book also emphasizes graphics to understand, learn, and explore design. The idea for this book, the organization, and the flow of content is original and new. The integration of computation, and the marriage of analytical and computational skills is a new valuable experience provided by this e-book. Most importantly the book is very interactive with

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respect to the code as it appears along with the analysis.

A modern text for use in today's classroom! The revision of this classic text continues to provide the same high quality material seen in previous editions. In addition, the fifth edition provides extensively rewritten, updated prose for content clarity, superb new problems, outstanding instruction on drawing free body diagrams, and new electronic supplements to assist learning and instruction. If you think you have seen Meriam & Kraige before, take another look: it's not what you remember it to be...it's better!