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*This book presents a
comprehensive study of the
nonlinear statics and*

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dynamics of composite beams and consists of solutions with and without active elements embedded in the beams. The static solution provides the initial conditions for the dynamic analysis. The dynamic

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problems considered include the analyses of clamped (hingeless) and articulated (hinged) accelerating rotating beams. Two independent numerical solutions for the steady state and the transient

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responses are presented. The author illustrates that the transient solution of the nonlinear formulation of accelerating rotating beam converges to the steady state solution obtained by the shooting method. Other

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key areas considered include calculation of the effect of perturbing the steady state solution, coupled nonlinear flap-lag dynamics of a rotating articulated beam with hinge offset and aerodynamic damping, and

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static and dynamic responses of nonlinear composite beams with embedded anisotropic piezo-composite actuators. The book is intended as a thorough study of nonlinear elasticity of slender beams and is targeted to

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researchers, graduate students, and practicing engineers in the fields of structural dynamics, aerospace structures, and mechanical engineering. Known for its accuracy, clarity, and dependability,

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*Meriam and Kraige's
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Statics Seventh Edition has
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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

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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.

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Meriam & Kraige's
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Statics has established a
highly respected tradition
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that emphasizes accuracy,
rigor, clarity, and*

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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.

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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

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

Ross's classic bestseller has been used extensively by professionals and as the

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primary text for a first undergraduate course in applied probability. With the addition of several new sections relating to actuaries, this text is highly recommended by the Society of Actuaries.

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*Motion Analysis of Soccer
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Engineering Mechanics

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***ENGINEERING MECHANICS (VOL. 1)
STATICS 5th Ed.***

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.

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The ball handler who fakes and then drives past a defender for an easy score. A pass rusher who leaves a would-be blocker in his wake on the way to sacking the quarterback. A setter who manages to maneuver both body and ball in the blink of an eye to make the perfect pass for the kill and match-winning point. These are

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all reasons agility and quickness are such prized physical attributes in modern sport. Efforts to become markedly quicker or more agile, however, aren't always successful. Genetic limitations, technical deficiencies, and inferior training activities are among the major obstacles.

Developing Agility and Quickness helps

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athletes blow past those barriers thanks to the top sport conditioning authority in the world, the National Strength and Conditioning Association. NSCA hand-picked its top experts to present the best training advice, drills, and programs for optimizing athletes' linear and lateral movements. Make Developing Agility and

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Quickness a key part of your conditioning program, and get a step ahead of the competition.

The intelligent sports analysis of a soccer ball (also known as football, football ball, or association football ball) requires accurately simulating its motion and finding the best design parameters.

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Employing classic mechanics, this book establishes a fundamental framework for the soccer ball multi-body dynamics modeling, virtual prototype simulation and optimization design. It presents 3D virtual prototypes to predict the soccer ball trajectory for soccer players and trainers. Five typical case studies have addressed in

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the kinematics and dynamics simulations of soccer ball projectile motion, free kick, and corner kick in the virtual environment. The research on multi-body dynamics models provides a useful method for engineers and scientists to investigate the spatial kinematics and dynamics performances of various balls, such as

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soccer ball, golf ball, American football, etc. The book is significant to guide undergraduate and graduate students from multi-disciplines to study system dynamics and optimization design. .

Over the past 50 years, Meriam & Kraige's Engineering Mechanics: Dynamics has established a highly respected tradition of

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Excellence—A Tradition that 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. Solving Dynamics Problems with Maple If

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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 Mechanics class, it will help you with your engineering assignments throughout the

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Dynamics Modeling, Optimization Design
and Virtual Simulation
Engineering Mechanics
Statics and Rotational Dynamics of
Composite Beams
Performance of the Jet Transport Airplane
Sustainable Development in Mechanical

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Engineering

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,

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formats * 100+ additional electronic transparencies offer problem statements and fully worked solutions for use in lecture or as outside study tools for students. Parallel structures are more effective than serial ones for industrial

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automation applications that require high precision and stiffness, or a high load capacity relative to robot weight. Although many industrial applications have adopted parallel structures for their design, few textbooks introduce the analysis of

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such robots in terms of dynamics and control. Filling this gap, Parallel Robots: Mechanics and Control presents a systematic approach to analyze the kinematics, dynamics, and control of parallel robots. It brings together analysis and design

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tools for engineers and researchers who want to design and implement parallel structures in industry.

Covers Kinematics, Dynamics, and Control in One Volume The book begins with the representation of motion of robots and the kinematic

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analysis of parallel manipulators. Moving beyond static positioning, it then examines a systematic approach to performing Jacobian analysis. A special feature of the book is its detailed coverage of the dynamics and control of parallel manipulators.

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The text examines dynamic analysis using the Newton-Euler method, the principle of virtual work, and the Lagrange formulations. Finally, the book elaborates on the control of parallel robots, considering both motion and force control. It

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introduces various model-free and model-based controllers and develops robust and adaptive control schemes. It also addresses redundancy resolution schemes in detail. Analysis and Design Tools to Help You Create Parallel Robots In

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each chapter, the author revisits the same case studies to show how the techniques may be applied. The case studies include a planar cable-driven parallel robot, part of a promising new generation of parallel structures that will allow for larger workspaces.

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The MATLAB® code used for analysis and simulation is available online. Combining the analysis of kinematics and dynamics with methods of designing controllers, this text offers a holistic introduction for anyone interested in designing and

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introduced and comprehensively covered in this widely adopted text. Revised and updated by Dr. David Dowling, Fluid Mechanics, Fifth Edition is suitable for both a first or second course in fluid mechanics at the graduate or

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advanced undergraduate level. The leading advanced general text on fluid mechanics, Fluid Mechanics, 5e includes a free copy of the DVD "Multimedia Fluid Mechanics," second edition. With the inclusion of the DVD, students

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engineers play a crucial role in the design and development of new products or infrastructure as well as the creation of wealth.

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the described system. This book is a must to transfer knowledge to future engineers with respect to hazards resulting from their work. This text contains detailed worked solutions to all the end-of-chapter exercises in the textbook Organic

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Chemistry. Notes in tinted boxes in the page margins highlight important principles and comments.

Dynamics

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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

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skills needed to solve
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Most books treat the subject of
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dynamics from an "analytical"
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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

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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

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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.

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principles and problem formulation. It illustrates both the cohesiveness of the relatively few fundamental ideas in this area and the great variety of problems these ideas solve. All of the problems address

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problems are presented in a single page format with comments and cautions keyed to salient points in the solution. -- Illustrations are color coordinated to identify related ideas throughout the book (e.g., red =

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forces and moments, green =
velocity and acceleration).

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turning and pitching maneuvers);
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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

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and examples in both SI
(Système International) and USC
(United States Customary) units
Considers the influence of
operational procedures and their
impact on airplane performance
Performance of the Jet Transport

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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-

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have reference for aerospace engineering students, applied researchers conducting performance-related studies, and flight operations engineers. Separation of the elements of classical mechanics into

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kinematics and dynamics is an uncommon tutorial approach, but the author uses it to advantage in this two-volume set. Students gain a mastery of kinematics first – a solid foundation for the later study of the free-body

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formulation of the dynamics problem. A key objective of these volumes, which present a vector treatment of the principles of mechanics, is to help the student gain confidence in transforming problems into appropriate

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mathematical language that may be manipulated to give useful physical conclusions or specific numerical results. In the first volume, the elements of vector calculus and the matrix algebra are reviewed in appendices.

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Unusual mathematical topics, such as singularity functions and some elements of tensor analysis, are introduced within the text. A logical and systematic building of well-known kinematic concepts, theorems, and

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formulas, illustrated by examples and problems, is presented offering insights into both fundamentals and applications. Problems amplify the material and pave the way for advanced study of topics in mechanical

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design analysis, advanced kinematics of mechanisms and analytical dynamics, mechanical vibrations and controls, and continuum mechanics of solids and fluids. Volume I of Principles of Engineering Mechanics

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Introductory Problems are simple, uncomplicated problems designed to help students gain confidence with a new topic.

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Sample Problems. Computer-Oriented Problems are marked with an icon and appear in the end-of-chapter Review Problems. Review Problems appear at the end of chapter. Offers comprehensive coverage

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of how to draw free body
diagrams

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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

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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-

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into formulas -- a skill that
will benefit them
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encounter real problems that***

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***second edition integrates
uncertainty and control into
the discussion of vibration,
outlining basic concepts
before delving into the
mathematical rigors of
modeling and analysis.
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that the logical sequence of material is ideal for tailoring individualized syllabi, and students will benefit from the abundance of problems and MATLAB programs provided in the text and on the accompanying CD-ROM,

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