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This the sixth volume of six from the Annual Conference of the Society for Experimental Mechanics, 2010, brings together 128 chapters on Experimental and Applied Mechanics. It presents early findings from experimental and computational investigations including

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coverage of all major topics in statics  
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technology and manufacturing/construction techniques. A basic knowledge of algebra and trigonometry are the only mathematical skills it requires, although several optional sections using calculus are provided for instructors teaching in



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Statics

Statics and Mechanics of Materials  
Modeling and Analysis of Dynamic  
Systems, Second Edition

**An understanding of dynamic  
effects on structures is critical  
to minimize losses from**

**earthquakes and other hazards. These three books provide an overview of essential topics in structural and geotechnical engineering with an additional focus on related topics in earthquake**



**engineering to enable readers gain such an understanding. One of the ultimate objectives of these books is to provide readers with insights into seismic analysis and design. However, in order to**

**accomplish that objective,  
background material on  
structural and geotechnical  
engineering is necessary.  
Hence the first two sections of  
the book provide this  
background material followed**

**by selected topics in earthquake engineering. The material is organized into three major parts. The first section covers topics in structural engineering. Beginning with fundamental**

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**mechanics of materials, the book includes chapters on linear and nonlinear analysis as well as topics on modeling of structures from different perspectives. In addition to traditional design of structural**

**systems, introductions to important concepts in structural reliability and structural stability are discussed. Also covered are subjects of recent interest, viz., blast and impact effects**

**on structures as well as the use of fiber reinforced polymer composites in structural applications. Given the growing interest in urban renewal, an interesting chapter on restoration of historic cities**

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**is also included. The second part of the book covers topics in geotechnical engineering, covering both shallow and deep foundations and issues and procedures for geotechnical modeling. The**

**final part of the book focuses on earthquake engineering with emphasis on both structures and foundations. Here again, the material covered includes both traditional seismic design and**



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**innovative seismic protection.  
And more importantly,  
concepts in modeling for  
seismic analysis are  
highlighted.  
For undergraduate Mechanics  
of Materials courses in**

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**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,**

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**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**

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**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,**

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**cohesive organization,  
outstanding illustrations, and  
dynamic use of exercises,  
examples, and free body  
diagrams to help prepare  
tomorrow's engineers.**

**Publisher description**

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**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**

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**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**

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**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.**

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should only be purchased  
when required by an  
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**Advanced Mechanics of  
Materials  
Materials Science and**

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**Engineering**

**Springer Handbook of  
Mechanical Engineering  
Dynamics of Coupled  
Structures, Volume 1**

***This resource covers all  
areas of interest for***

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***the practicing engineer  
as well as for the  
student at various  
levels and educational  
institutions. It  
features the work of  
authors from all over***

***the world who have  
contributed their  
expertise and support  
the globally working  
engineer in finding a  
solution for today's  
mechanical engineering***

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***problems. Each subject  
is discussed in detail  
and supported by  
numerous figures and  
tables.***

***Beer and Johnston's  
Mechanics of Materials***

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***is the uncontested  
leader for the teaching  
of solid mechanics. Used  
by thousands of students  
around the globe since  
its publication in 1981,  
Mechanics of Materials,***

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*provides a precise  
presentation of the  
subject illustrated with  
numerous engineering  
examples that students  
both understand and  
relate to theory and*

***application. The tried  
and true methodology for  
presenting material  
gives your student the  
best opportunity to  
succeed in this course.  
From the detailed***

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***examples, to the  
homework problems, to  
the carefully developed  
solutions manual, you  
and your students can be  
confident the material  
is clearly explained and***



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***accurately represented.  
If you want the best  
book for your students,  
we feel Beer, Johnston's  
Mechanics of Materials,  
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choice.***

***Introduction to Optimum Design, Third Edition describes an organized approach to engineering design optimization in a rigorous yet simplified manner. It illustrates***

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***various concepts and  
procedures with simple  
examples and  
demonstrates their  
applicability to  
engineering design  
problems. Formulation of***

***a design problem as an optimization problem is emphasized and illustrated throughout the text. Excel and MATLAB® are featured as learning and teaching***

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***aids. Basic concepts of optimality conditions and numerical methods are described with simple and practical examples, making the material highly***

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***teachable and learnable  
Includes applications of  
optimization methods for  
structural, mechanical,  
aerospace, and  
industrial engineering  
problems Introduction to***

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***MATLAB Optimization  
Toolbox Practical design  
examples introduce  
students to the use of  
optimization methods  
early in the book New  
example problems***

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*throughout the text are enhanced with detailed illustrations Optimum design with Excel Solver has been expanded into a full chapter New chapter on several advanced*



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*optimum design topics  
serves the needs of  
instructors who teach  
more advanced courses  
This is a revised  
edition emphasising the  
fundamental concepts and*

*applications of strength  
of materials while  
intending to develop  
students' analytical and  
problem-solving skills.  
60% of the 1100 problems  
are new to this edition,*

***providing plenty of material for self-study. New treatments are given to stresses in beams, plane stresses and energy methods. There is also a review chapter on***

***centroids and moments of inertia in plane areas; explanations of analysis processes, including more motivation, within the worked examples.***

***Proceedings of the 2010***

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***Annual Conference on  
Experimental and Applied  
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Fluid Mechanics  
Statics and Strength of  
Materials  
Structural Steel Design***

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**Prehospital Transport and  
Whole-body Vibration helps  
medical transport  
professionals and vehicle and  
equipment designers  
understand the concepts of  
human response to whole**

**body vibration in order to shed light on the ongoing debate on the effectiveness of current immobilization systems. Written for anyone working with patients who have been medically**

**transported, such as  
emergency medicine  
physicians, medics, ER  
nurses, and those researching  
and studying whole-body  
vibration (medical students,  
ergonomists, human factor**



**researchers, engineers,  
system developers), this book  
takes an informative look at  
situations that occur in the air,  
on the sea and in ground  
medical vehicles en route to a  
hospital. The transport of**

**supine humans under these conditions may lead to severe involuntary motions of body segments, which can generate discomfort, pain and secondary injuries, especially when the patient has a**

**suspected spinal cord injury.  
This book will help medical  
transport professionals and  
vehicle and equipment  
designers understand the  
basic concepts of human  
response to whole body**

**vibration and shed light on the ongoing debate on the effectiveness of current immobilization systems. Provides readers the information needed to create efficient systems that ensure**

**the safety and wellbeing of patients in transport Offers measurements and biodynamic metrics to professionals in the field so they can conduct vibration testing on their own Includes**

**basic information that will not  
be affected by regulatory  
updates**

**Modeling and Analysis of  
Dynamic Systems, Second  
Edition introduces MATLAB®,  
Simulink®, and Simscape™**

**and then uses them throughout the text to perform symbolic, graphical, numerical, and simulation tasks. Written for junior or senior level courses, the textbook meticulously covers**

**techniques for modeling  
dynamic systems, methods of  
response analysis, and  
provides an introduction to  
vibration and control systems.  
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provide students with a**



**thorough knowledge of the mathematical modeling and analysis of dynamic systems. See What's New in the Second Edition: Coverage of modeling and analysis of dynamic systems ranging from**

**mechanical to thermal using  
Simscape Utilization of  
Simulink for linearization as  
well as simulation of nonlinear  
dynamic systems Integration  
of Simscape into Simulink for  
control system analysis and**

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**design Each topic covered includes at least one example, giving students better comprehension of the subject matter. More complex topics are accompanied by multiple, painstakingly worked-out**

**examples. Each section of each chapter is followed by several exercises so that students can immediately apply the ideas just learned. End-of-chapter review exercises help in learning how**

**a combination of different ideas can be used to analyze a problem. This second edition of a bestselling textbook fully integrates the MATLAB Simscape Toolbox and covers the usage of Simulink for new**

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**purposes. It gives students  
better insight into the  
involvement of actual physical  
components rather than their  
mathematical representations.  
New and Improved SI  
Edition—Uses SI Units**

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**Exclusively in the Text**  
**Adapting to the changing**  
**nature of the engineering**  
**profession, this third edition**  
**of Fundamentals of Machine**  
**Elements aggressively delves**  
**into the fundamentals and**

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**design of machine elements  
with an SI version. This latest  
edition includes a plethora of  
pedagogy, providing a greater  
understanding of theory and  
design. Significantly  
Enhanced and Fully Illustrated**

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**The material has been organized to aid students of all levels in design synthesis and analysis approaches, to provide guidance through design procedures for synthesis issues, and to**

**expose readers to a wide variety of machine elements. Each chapter contains a quote and photograph related to the chapter as well as case studies, examples, design procedures, an abstract, list of**

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**symbols and subscripts,  
recommended readings, a  
summary of equations, and  
end-of-chapter problems.  
What's New in the Third  
Edition: Covers life cycle  
engineering Provides a**

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**description of the hardness  
and common hardness tests  
Offers an inclusion of flat  
groove stress concentration  
factors Adds the staircase  
method for determining  
endurance limits and includes**

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**Haigh diagrams to show the effects of mean stress**  
**Discusses typical surface finishes in machine elements and manufacturing processes used to produce them**  
**Presents a new treatment of**

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**spline, pin, and retaining ring  
design, and a new section on  
the design of shaft couplings  
Reflects the latest  
International Standards  
Organization standards  
Simplifies the geometry**

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**Includes a design synthesis  
approach for worm gears**

**Expands the discussion of  
fasteners and welds**

**Discusses the importance of  
the heat affected zone for**

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**weld quality Describes the  
classes of welds and their  
analysis methods Considers  
gas springs and wave springs  
Contains the latest standards  
and manufacturer's  
recommendations on belt**

*Page 88/196*



**design, chains, and wire ropes**  
The text also expands the  
appendices to include a wide  
variety of material properties,  
geometry factors for fracture  
analysis, and new summaries  
of beam deflection.

**This systematic exploration of real-world stress analysis has been completely updated to reflect state-of-the-art methods and applications now used in aeronautical, civil, and mechanical engineering, and**

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**engineering mechanics.  
Distinguished by its  
exceptional visual  
interpretations of solutions,  
Advanced Mechanics of  
Materials and Applied  
Elasticity offers in-depth**

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**coverage for both students  
and engineers. The authors  
carefully balance  
comprehensive treatments of  
solid mechanics, elasticity,  
and computer-oriented  
numerical**

**methods—preparing readers for both advanced study and professional practice in design and analysis. This major revision contains many new, fully reworked, illustrative examples and an**

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**updated problem  
set—including many problems  
taken directly from modern  
practice. It offers extensive  
content improvements  
throughout, beginning with an  
all-new introductory chapter**

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**on the fundamentals of  
materials mechanics and  
elasticity. Readers will find  
new and updated coverage of  
plastic behavior, three-  
dimensional Mohr's circles,  
energy and variational**

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**methods, materials, beams,  
failure criteria, fracture  
mechanics, compound  
cylinders, shrink fits, buckling  
of stepped columns, common  
shell types, and many other  
topics. The authors present**



**significantly expanded and updated coverage of stress concentration factors and contact stress developments. Finally, they fully introduce computer-oriented approaches in a**

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**comprehensive new chapter  
on the finite element method.  
An Insight Into Metal Based  
Foams  
FFW 2018, 9-10 July 2018,  
Ghent University, Belgium  
Applied Strength of Materials**

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**for Engineering Technology  
Engineering Mechanics 2**

*This book contains the most  
important formulas and  
more than 140 completely  
solved problems from  
Mechanics of Materials and*

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***Hydrostatics. It provides engineering students material to improve their skills and helps to gain experience in solving engineering problems. Particular emphasis is***

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***placed on finding the  
solution path and  
formulating the basic  
equations. Topics include: -  
Stress - Strain - Hooke's Law  
- Tension and Compression  
in Bars - Bending of Beams -***

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***Torsion - Energy Methods -  
Buckling of Bars -  
Hydrostatics***

***The primary focus of this  
book, accordingly, is to  
provide insight into the  
fundamentals, applications,***

***manufacturing aspects and properties (mechanical, thermal, electrical etc.) of metal foams. Their potential applications in various small- as well as large-scale industries are highlighted.***

***The present book also focuses on aspects of designing simple structures by taking into account loading conditions under tensile, compressive or torsional stress for metals***



***and their foams. In view of theoretical analysis, clear explanation is provided as how metal foams can exhibit better structural properties when compared to their parent metal. It is hoped***

***that the present book, in view of significant application potential of metal foams in near future, will be extremely useful to students and academicians in tertiary institutes and***

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***researchers working in  
research labs who are  
attempting to find  
lightweight solutions.  
Beer and Johnston's  
Mechanics of Materials is  
the uncontested leader for***

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***the teaching of solid mechanics. Used by thousands of students around the globe since publication, Mechanics of Materials, provides a precise presentation of the subject***

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***illustrated with numerous engineering examples that students both understand and relate to theory and application. The tried and true methodology for presenting material gives***

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***your student the best  
opportunity to succeed in  
this course. From the  
detailed examples, to the  
homework problems, to the  
carefully developed solutions  
manual, you and your***

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the material is clearly  
explained and accurately  
represented. McGraw-Hill is  
proud to offer Connect with  
the seventh edition of Beer  
and Johnston's Mechanics of***

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adaptive learning system  
that helps students learn  
faster, study more  
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***These proceedings gather a selection of peer-reviewed papers presented at the 7th International Conference on Fracture Fatigue and Wear (FFW 2018), held at Ghent University, Belgium on 9-10***

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***July 2018. The contributions,  
prepared by international  
scientists and engineers,  
cover the latest advances in  
and innovative applications  
of fracture mechanics,  
fatigue of materials,***

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***tribology and wear of materials. The book is intended for academics, including graduate students and researchers, as well as industrial practitioners working in the areas of***

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***fracture fatigue and wear.***

***Fundamentals of***

***Biomechanics***

***Loose Leaf for Mechanics of  
Materials***

***The Science and***

***Engineering of Materials,***

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***Enhanced, SI Edition  
Proceedings of the 7th  
International Conference on  
Fracture Fatigue and Wear***

*The goal of this text is to  
introduce a general problem-  
solving approach for the*

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*beginning engineering student. Thus, Introduction to Analysis focuses on how to solve (any) kind of engineering analytical problem in a logical and systematic way. The book helps to prepare the students for such analytically*

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strength of materials, electrical  
circuits, fluid mechanics,  
thermodynamics, etc.*

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*code. Thorough coverage, a highly visual presentation, and increased problem solving from an author you trust. Mechanics of Materials clearly and thoroughly presents the theory and supports the application of essential mechanics*

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*of materials principles. Professor Hibbeler's concise writing style, countless examples, and stunning four-color photorealistic art program - all shaped by the comments and suggestions of hundreds of reviewers - help*

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