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Intended for
undergraduate-level

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courses in Fluid
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Technology and
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This text covers various

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basic principles of
fluid mechanics - both
statics and dynamics.
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Simulink® to perform
symbolic, graphical,
numerical, and

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simulation tasks,
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a thorough understanding
of the mathematical
modeling and analysis of
dynamic systems. It

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meticulously covers techniques for modeling dynamic systems, methods of response analysis, and vibration and control systems. After introducing the software

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and essential
mathematical background,
the text discusses
linearization and
different forms of
system model
representation, such as

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state-space form and
input-output equation.
It then explores
translational,
rotational, mixed
mechanical, electrical,
electromechanical,

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pneumatic, liquid-level,
and thermal systems. The
authors also analyze the
time and frequency
domains of dynamic
systems and describe
free and forced

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vibrations of single and multiple degree-of-freedom systems, vibration suppression, modal analysis, and vibration testing. The final chapter examines

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aspects of control system analysis, including stability analysis, types of control, root locus analysis, Bode plot, and full-state feedback.

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With much of the material rigorously classroom tested, this textbook enables undergraduate students to acquire a solid comprehension of the

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subject. It provides at least one example of each topic, along with multiple worked-out examples for more complex topics. The text also includes many

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exercises in each chapter to help students learn firsthand how a combination of ideas can be used to analyze a problem.

Building on the success

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of previous editions,
this book continues to
provide engineers with a
strong understanding of
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of materials and
composites, as well as

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the relationships that exist between the structural elements of materials and their properties. The relationships among processing, structure,

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properties, and performance components for steels, glass-ceramics, polymer fibers, and silicon semiconductors are explored throughout the

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chapters. The discussion of the construction of crystallographic directions in hexagonal unit cells is expanded. At the end of each chapter, engineers will

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of research and
engineering. The
collection presents
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Applied Strength of
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Proceedings of the 2010
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Modeling and Analysis of
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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

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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

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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

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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

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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

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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

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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

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**accomplish that objective,
background material on
structural and geotechnical
engineering is necessary. Hence
the first two sections of the book
provide this background material
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earthquake engineering. The material is organized into three major parts. The first section covers topics in structural engineering. Beginning with fundamental mechanics of materials, the book includes

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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

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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

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applications. Given the growing interest in urban renewal, an interesting chapter on restoration of historic cities is also included. The second part of the book covers topics in geotechnical engineering,

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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.

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Here again, the material covered includes both traditional seismic design and innovative seismic protection. And more importantly, concepts in modeling for seismic analysis are highlighted.

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activities advances in design and manufacturing methods These developments have put more stress on mechanical engineering education, making it increasingly difficult to cover all the topics that a professional engineer will need in his or her

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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

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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

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