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This contains selected and peer-reviewed papers from the 4th Annual International Conference on Material Science and Environmental Engineering (MSEE), December 16-18 2016, in Chengdu, China. Interactions of building materials, biomaterials, energy materials and nanomaterials with surrounding environment are discussed. With abundant case studies, it is of interests to material scientists and environmental engineers.

Discover why materials behave as the way they do with ESSENTIALS OF MATERIALS SCIENCE AND ENGINEERING, 4TH Edition. Materials engineering explains how to process materials to suit specific engineering designs. Rather than simply memorizing facts or lumping materials into broad categories, you gain an understanding of the whys and hows behind materials science and engineering. This knowledge of materials science provides an important a framework for comprehending the principles used to engineer materials. Detailed solutions and meaningful examples assist in learning principles while numerous end-of-chapter problems offer significant practice. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This collection of over 200 detailed worked exercises adds to and complements the textbook "Fluid Mechanics" by the same author, and, at the same time, illustrates the teaching material via examples. The exercises revolve around applying the fundamental concepts of "Fluid Mechanics" to obtain solutions to diverse concrete problems, and, in so doing, the students' skill in the mathematical modelling of practical problems is developed. In addition, 30 challenging questions WITHOUT detailed solutions have been included. While lecturers will find these questions suitable for examinations and tests, students themselves can use them to check their understanding of the subject.

Gas Dynamics covers all the material required for mainstream introductory courses in Advanced Fluid Mechanics, and Compressible Fluid Flow. In order to ensure complete understanding of the physical behaviour of compressible fluid flow and the principles underlying modern-day industrial experience and techniques, the authors begin with basic one-dimensional steady flow and progress to introductory two-dimensional flows and unsteady flows. Applications cover aerodynamics, turbomachinery, gas turbines and common engineering designs. Each chapter begins with basic principles, provides full derivation of results, explores the theory via worked problems and exercises (answers provided in a separate solutions manual), and has been extensively class-tested.

This text provides students with a solid understanding of the relationship between the structure, processing, and properties of materials. Authors Donald Askeland and Pradeep Fulay teach the fundamental concepts of atomic structure and materials behaviors and clearly link them to the materials issues that students will have to deal with when they enter the industry or graduate school (e.g. design of structures, selection of materials, or materials failures). While presenting fundamental concepts and linking them to practical applications, the authors emphasize the necessary basics without overwhelming the students with too much of the underlying chemistry or physics. The book covers fundamentals in an integrated approach that emphasizes applications of new technologies that engineered materials enable. New and interdisciplinary developments in materials field such as nanomaterials, smart materials, micro-electro-mechanical (MEMS) systems, and biomaterials are also discussed. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Includes all works deriving from DOE, other related government-sponsored information and foreign nonnuclear information.

Con?gurational mechanics has attracted quite a bit of attention from various - search ?elds over the recent years/decades. Having been regarded in its infancy of the early years as a somewhat obscure and almost mystic ?eld of research that could only be understood by a happy few of insiders with a pronounced theoretical inc- nation, con?gurational mechanics has developed by now into a versatile tool that can be applied to a variety of problems. Since the seminal works of Eshelby a general notion of con?gurational - chanics has been developed and has successfully been applied to many pr- lems involving various types of defects in continuous media. The most pro- nent application is certainly the use of con?gurational forces in fracture - chanics. However, as con?gurational mechanics is related to arbitrary mat- ial inhomogeneities it has also very successfully been applied to many ma- rials science and engineering problems such as phase transitions and inelastic deformations. Also the modeling of materials with micro-structure evolution is an important ?eld, in which con?gurational

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mechanics can provide a better understanding of processes going on within the material. Besides these mechanically, physically, and chemically motivated applications, ideas from configurational mechanics are now increasingly applied within computational mechanics.

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