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Discussing methods for maximizing available energy, Energy Conversion surveys the latest advances in energy conversion from a wide variety of currently available energy sources. The book describes energy sources such as fossil fuels, biomass including refuse-derived biomass fuels, nuclear, solar radiation, wind, geothermal, and ocean, then provides the terminology and units used for each energy resource and their equivalence. It includes an overview of the steam power cycle, gas turbines, internal combustion engines, hydraulic turbines, Stirling engines, advanced fossil fuel power systems, and combined-cycle power plants. It outlines the development, current use, and future of nuclear fission. The book also gives a comprehensive description of the direct energy conversion methods, including, Photovoltaics, Fuel Cells, Thermoelectric conversion, Thermionics and MHD It briefly reviews the physics of PV electrical generation, discusses the PV system design process, presents several PV system examples, summarizes the latest developments in crystalline silicon PV, and explores some of the present challenges facing the large scale deployment of PV energy sources. The book discusses five energy storage categories: electrical, electromechanical, mechanical, direct thermal, and thermochemical and the storage media that can store and deliver energy. With contributions from researchers at the top of their fields and on the cutting edge of technologies, the book provides comprehensive coverage of end use efficiency of green technology. It includes in-depth discussions not only of better efficient energy management in buildings and industry, but also of how to plan and design for efficient use and management from the ground up.

Mechatronics has emerged as its own discipline over the past decade, yet no reference has lived up to the demands of being a working guide for designing and implementing the new generation of mechatronic systems. Uniting an international team of leading experts, Mechatronic Systems: Devices, Design, Control, Operation and Monitoring rises to the ch

Written by Dr. E.C. Fitch, the book contains over 340 double column pages which include 400 figures and tables, a comprehensive bibliography, and index. There is no root cause of mechanical failure, known to the author, that has been ignored or left out. Nowhere in the world is this information put together in such a concise and comprehensive manner, and the book will serve as a reference and guide to designers, practising engineers, maintenance technicians, plant managers and operators who must design, maintain and operate fluiddependent mechanical systems.

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Understanding and controlling vibration is critical for reducing noise, improving work environments and product quality, and increasing the useful life of industrial machinery and other mechanical systems. Computer-based modeling and analytical tools provide fast, accurate, and efficient means of designing and controlling a system for improved vibratory and, subsequently, acoustic performance. Computer Techniques in Vibration provides an overview as well as a detailed account and application of the various tools and techniques available for modeling and simulating vibrations. Drawn from the immensely popular Vibration and Shock Handbook, each expertly crafted chapter of this book includes convenient summary windows, tables, graphs, and lists to provide ready access to the important concepts and results. Working systematically from general principles to specific applications, the coverage spans from numerical techniques, modeling, and software tools to analysis of flexibly supported multibody systems, finite element applications, vibration signal analysis, fast Fourier transform (FFT), and wavelet techniques and applications. MATLAB® toolboxes and other widely available software packages feature prominently in the discussion, accompanied by numerous examples, sample outputs, and a case study. Instead of wading through heavy volumes or software manuals for the techniques you need, find a ready collection of eminently practical tools in Computer Techniques in Vibration.

Controlling a system's vibrational behavior, whether for reducing harmful vibrations or for enhancing useful types, is critical to ensure safe and economical operation as well as longer structural and equipment lifetimes. A related issue is the effect of vibration on humans and their environment. Achieving control of vibration requires thorough understanding of system behavior, and Vibration Monitoring, Testing, and Instrumentation provides a convenient, thorough, and up-to-date source of tools, techniques, and data for instrumenting, experimenting, monitoring, measuring, and analyzing vibration in a variety of mechanical and structural systems and environments. Drawn from the immensely popular Vibration and Shock Handbook, each expertly crafted chapter of this book includes convenient summary windows, tables, graphs, and lists to provide ready access to the important concepts and results. The authors give equal emphasis to the theoretical and practical aspects, supplying methodologies for analyzing shock, vibration, and seismic behavior. They thoroughly review instrumentation and testing methods such as exciters, sensors, and LabVIEW® tools for virtual instrumentation as well as signal acquisition, conditioning, and recording. Illustrative examples and case studies accompany a wide array of industrial and experimental techniques, analytical formulations, and design approaches. The book also includes a chapter on human response to vibration. Vibration Monitoring, Testing, and Instrumentation supplies a thorough understanding of the concepts, tools, instruments, and techniques you need to know before the design process begins.

Reducing and controlling the level of vibration in a mechanical system leads to an improved work environment and product quality, reduced noise, more economical operation, and longer equipment life. Adequate design is essential for reducing vibrations, while damping and control methods help further reduce and manipulate vibrations when design strategies reach their limits. There are also useful types of vibration, which may require enhancement or control. Vibration Damping, Control, and Design balances theoretical and application-oriented coverage to enable optimal vibration and noise suppression and control in nearly any system. Drawn from the immensely popular Vibration and Shock Handbook, each expertly crafted chapter of this book includes convenient summary windows, tables, graphs, and lists to provide ready access to the important concepts and results. Working systematically from general principles to specific applications, coverage spans from theory and experimental techniques in vibration damping to isolation, passive control, active control, and structural dynamic modification. The book also discusses specific issues in designing for and controlling vibrations and noise such as regenerative chatter in machine tools, fluid-induced vibration, hearing and psychological effects, instrumentation for monitoring, and statistical energy analysis. This carefully edited work strikes a balance between practical considerations, design issues, and experimental techniques. Complemented by design examples and case studies, Vibration Damping, Control, and Design builds a deep understanding of the concepts and demonstrates how to apply these principles to real systems.

New applications for composite materials are being developed at a rapid pace. However, their complex microstructures present considerable challenges for nondestructive testing and characterization. Ultrasonic waves provide quantitative means of nondestructive evaluation of these materials and structures. For this purpose, it is necessary to obtain

As our knowledge of microelectromechanical systems (MEMS) continues to grow, so does The MEMS Handbook. The field has changed so much that this Second Edition is now available in three volumes. Individually, each volume provides focused, authoritative treatment of specific areas of interest. Together, they comprise the most comprehensive collection of MEMS knowledge available, packaged in an attractive slipcase and offered at a substantial savings. This best-selling handbook is now more convenient than ever, and its coverage is unparalleled. The third volume, MEMS: Applications, offers a broad overview of current, emerging, and possible future MEMS applications. It surveys inertial sensors, micromachined pressure sensors, surface micromachined devices, microscale vacuum pumps, reactive control for skin-friction reduction, and microchannel heat sinks, among many others. Two new chapters discuss microactuators and nonlinear electrokinetic devices. This book is vital to understanding the current and possible capabilities of MEMS technologies. MEMS: Applications comprises contributions from the foremost experts in their respective specialties from around the world. Acclaimed author and expert Mohamed Gad-el-Hak has again raised the bar to set a new standard for excellence and authority in the fledgling fields of MEMS and nanotechnology.

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