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*Nuclear power has, in recent years,
undergone a major transformation,*

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resulting in major technical developments and a new generation of nuclear scientists and engineers. A comprehensive book that reflects the latest nuclear technologies has been lacking—until now. The Nuclear Engineering Handbook is a response

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to this global resurgence of interest in commercial nuclear power. A broad overview of nuclear power and engineering and their limitless potential, this basic introduction to the field provides an in-depth discussion of power plants and extensive

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coverage of the nuclear fuel cycle, waste disposal, and related engineering technologies. Organized into three sections—Nuclear Power Reactors, Nuclear Fuel Cycle Processes and Facilities, and Engineering and Analytical

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Applications—this book addresses the entire nuclear fuel cycle and process. Topics include everything from the mining, milling, and enrichment of uranium and thorium fuel resources, to fuel fabrication, nuclear materials transportation, fuel reprocessing, and

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safe waste disposal. This all-encompassing volume discusses current analytical techniques related to nuclear engineering, addressing safety, heat transfer, shielding, thermo-hydraulics, and heat physics. Covering reactor operation and

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radiation protection, it also outlines the economic considerations involved in building new nuclear power stations instead of large fossil-fueled plants, and elaborates on concerns regarding the control of emissions from the latter. A review of past and

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current nuclear engineering capabilities, this valuable resource covers the gamut of crucial topics, including historical perspectives, a detailed technological review, and an assessment of the field's future direction. It is an exceptional tool that

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will help readers to foster optimal understanding and use of nuclear power for electricity generation now and in the future.

Brought to you by the creator of numerous bestselling handbooks, the Handbook of Energy Efficiency and

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Renewable Energy provides a thorough grounding in the analytic techniques and technological developments that underpin renewable energy use and environmental protection. The handbook emphasizes the engineering

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aspects of energy conservation and renewable energy. Taking a world view, the editors discuss key topics underpinning energy efficiency and renewable energy systems. They provide content at the forefront of the contemporary debate about energy

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and environmental futures. This is vital information for planning a secure energy future. Practical in approach, the book covers technologies currently available or expected to be ready for implementation in the near future. It

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sets the stage with a survey of current and future world-wide energy issues, then explores energy policies and incentives for conservation and renewable energy, covers economic assessment methods for conservation and generation technologies, and

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discusses the environmental costs of various energy generation technologies. The book goes on to examine distributed generation and demand side management procedures and gives a perspective on the efficiencies, economics, and

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environmental costs of fossil and nuclear technologies. Highlighting energy conservation as the cornerstone of a successful national energy strategy, the book covers energy management strategies for industry and buildings, HVAC

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controls, co-generation, and advances in specific technologies such as motors, lighting, appliances, and heat pumps. It explores energy storage and generation from renewable sources and underlines the role of infrastructure security and risk

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analysis in planning future energy transmission and storage systems. These features and more make the Handbook of Energy Efficiency and Renewable Energy the tool for designing the energy sources of the future.

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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

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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

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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

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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

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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

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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

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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.*

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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

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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

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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

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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

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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

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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

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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

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*use and management from the ground
up.*

Mathematical sciences. B

Statistical Reference Index

Mechatronic Systems

Proceedings of FMFP 2019

Hydraulic Structures

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Includes entries for maps and atlases.

Controlling a system's vibrational behavior, whether for reducing harmful vibrations or for enhancing useful types, is critical to ensure safe and economical

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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,

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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

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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

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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

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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

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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,

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Testing, and Instrumentation supplies a thorough understanding of the concepts, tools, instruments, and techniques you need to know before the design process begins. Tools to make hard problems easier to solve. In this book, Sanjoy

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Mahajan shows us that the way to master complexity is through insight rather than precision. Precision can overwhelm us with information, whereas insight connects seemingly disparate pieces of information into a simple

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picture. Unlike computers, humans depend on insight. Based on the author's fifteen years of teaching at MIT, Cambridge University, and Olin College, *The Art of Insight in Science and Engineering* shows us how to build insight and find

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understanding, giving readers tools to help them solve any problem in science and engineering. To master complexity, we can organize it or discard it. The Art of Insight in Science and Engineering first teaches the tools for organizing

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complexity, then distinguishes the two paths for discarding complexity: with and without loss of information. Questions and problems throughout the text help readers master and apply these groups of tools. Armed with this

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three-part toolchest, and without complicated mathematics, readers can estimate the flight range of birds and planes and the strength of chemical bonds, understand the physics of pianos and xylophones, and explain why skies are blue and

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sunsets are red. The Art of Insight in Science and Engineering will appear in print and online under a Creative Commons Noncommercial Share Alike license.

This book includes the original, peer reviewed research papers

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from the conference, Proceedings of the 2nd International Conference on Intelligent Technologies and Engineering Systems (ICITES2013), which took place on December 12-14, 2013 at Cheng Shiu University in

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Kaohsiung, Taiwan. Topics covered include: laser technology, wireless and mobile networking, lean and agile manufacturing, speech processing, microwave dielectrics, intelligent circuits and systems, 3D graphics, communications and

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structure dynamics and control.
Fluid Flow and Heat Transfer in
Porous Media Manufactured by a
Space Holder Method
Elastic Waves in Composite Media
and Structures
NBS Special Publication

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Energy Management and
Conservation Handbook
Indian Plastics Industry
Control Engineering in Robotics
and Industrial Automation
This book focuses on the effects of
the material, porosity, pore size

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and pore shape on flow behaviour and heat transfer in microscale porous media manufactured using a space holder method. It also describes a novel approach to studying flow behaviour in non-transparent materials such as

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porous metals via flow
visualization in transparent media
that mimic the porous structure.
The book employs a combination
of microparticle image velocimetry
– a modern, advanced technique –
and pressure drop measurement –

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a more traditional method – that makes the mechanistic study of several phenomena possible. It covers the identification of various flow regimes and their boundaries, velocity profiles on the microscale, the heat transfer coefficient under

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forced convection, and the correlation between flow behaviour on the pore scale and the convective heat transfer performance of the porous media. Understanding the fundamentals of porous flow, especially on the

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microscale, is critical for applications of porous media in heat exchangers, catalytic convertors, chemical reactors, filtration and oil extraction. Accordingly, this book offers a valuable resource for all

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researchers, graduate students and engineers working in the areas of porous flow and porous materials.

Focusing on how a machine "feels" and behaves while operating,
Machine Elements: Life and Design

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seeks to impart both intellectual and emotional comprehension regarding the "life" of a machine. It presents a detailed description of how machines elements function, seeking to form a sympathetic attitude toward the

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machine and to ensure its wellbeing through more careful and proper design. The book is divided into three sections for accessibility and ease of comprehension. The first section is devoted to microscopic

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deformations and displacements both in permanent connections and within the bodies of stressed parts. Topics include relative movements in interference fit connections and bolted joints, visual demonstrations and

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clarifications of the phenomenon of stress concentration, and increasing the load capacity of parts using prior elasto-plastic deformation and surface plastic deformation. The second part examines machine elements and

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units. Topics include load capacity calculations of interference fit connections under bending, new considerations about the role of the interference fit in key joints, a detailed examination of bolts loaded by eccentrically applied

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tension forces, resistance of cylindrical roller bearings to axial displacement under load, and a new approach to the choice of fits for rolling contact bearings. The third section addresses strength calculations and life prediction of

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machine parts. It includes information on the phenomena of static strength and fatigue; correlation between calculated and real strength and safety factors; and error migration. This is the third book in a series on

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Computational Methods in Earthquake Engineering. The purpose of this volume is to bring together the scientific communities of Computational Mechanics and Structural Dynamics, offering a wide

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coverage of timely issues on contemporary Earthquake Engineering. This volume will facilitate the exchange of ideas in topics of mutual interest and can serve as a platform for establishing links between

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research groups with complementary activities. The computational aspects are emphasized in order to address difficult engineering problems of great social and economic importance.

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The art and the science of building systems design evolve continuously as designers, practitioners, and researchers all endeavor to improve the performance of buildings and the comfort and productivity of their

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occupants. Retaining coverage from the original second edition while updating the information in electronic form, Heating and Cooling of Buildings: Design for Efficiency, Revised Second Edition presents the technical basis for

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designing the lighting and mechanical systems of buildings. Along with numerous homework problems, the revised second edition offers a full chapter on economic analysis and optimization, new heating and

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cooling load procedures and databases, and simplified procedures for ground coupled heat transfer calculations. The accompanying CD-ROM contains an updated version of the Heating and Cooling of Buildings (HCB)

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software program as well as electronic appendices that include over 1,000 tables in HTML format that can be searched by major categories, a table list, or an index of topics. Ancillary information is available on the book's website

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www.hcbcentral.com From materials to computers, this edition explores the latest technologies exerting a profound effect on the design and operation of buildings. Emphasizing design optimization and critical thinking,

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the book continues to be the ultimate resource for understanding energy use in buildings.

The Art of Insight in Science and
Engineering
Mastering Complexity

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Nanotechnology

Introduction to Precision Machine

Design and Error Assessment

Abstracts

Fluid Power Engineering

**div="" style="" This book
comprises select proceedings**

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**of the 46th National
Conference on Fluid
Mechanics and Fluid Power
(FMFP 2019). The contents of
this book focus on
aerodynamics and flow
control, computational fluid
dynamics, fluid structure**

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**interaction, noise and aero-
acoustics, unsteady and
pulsating flows, vortex
dynamics, nuclear thermal
hydraulics, heat transfer in
nanofluids, etc. This book
serves as a useful reference
beneficial to researchers,**

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**academicians and students
interested in the broad field
of mechanics. ^**

**Understanding and
controlling vibration is critical
for reducing noise, improving
work environments and
product quality, and**

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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

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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

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**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**

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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

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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

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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

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**for the techniques you need,
find a ready collection of
eminently practical tools in
Computer Techniques in
Vibration.**

**This book emerges from the
recognition that energy,
environment and ecosystems**

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**are dynamically and
inextricably connected. The
energy environment system
must be addressed in its
totality, so that we can devise
sustainable solutions that
incorporate both economic
growth and environmental**

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conservation. No single clean energy source will sustain long-term energy security, and fossil fuels will remain prominent in the mix of energy sources for several decades to come. Energy solutions, therefore, must

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employ a broad and diverse range of approaches, including cleaner fossil fuel technologies, and an affordable transition to greener power generation employing waste, water and renewable resources.

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Moreover, adapting to this changing global energy picture will require a transformational shift in the ways we use and deliver energy services. The authors begin with a broad introductory chapter on

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sustainable energy and the environment, classifying energy resources, cataloging environmental degradations, and outlining the concepts and practices of sustainability. In Chapters Two and Three, they

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summarize the basic constituents of the environment, the biosphere and its natural cycles, and offer a model of Earth's planetary temperatures and the greenhouse effect. Chapters Four and Five

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outline conventional energy and power systems, and related environmental degradations. The next several chapters cover clean coal technologies for power generation, and discuss sustainable energy and power

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technologies based on both thermal and photovoltaic solar energy, along with biomass and wind. The final chapters examine in depth the management of waste and water, pollution control and energy conservation. The

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book introduces a unique approach to sustainability and energy conservation which emphasizes the relationships between underlying scientific principles and practical applications employed in engineering solutions. All this

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is offered in a form that matches the requirements of college-level environmental science and engineering courses.

This book describes the methodology and accompanying technology for

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**reducing the costs of
validation of changes by
introducing automatic
techniques to analyze and
test software increments. It
builds a unified approach to
efficient and reliable
validation of changes and**

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**upgrades, and may be used
as a research monograph and
a reference book.**

Applications

**Basic Fluid Mechanics and
Hydraulic Machines**

Handbook of Energy

Efficiency and Renewable

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Publication

Energy

**Computational Methods in
Earthquake Engineering
Street-Fighting Mathematics
Energy Conversion**

Mechatronics has emerged as
its own discipline over the past
decade, yet no reference has

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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:

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Devices, Design, Control,
Operation and Monitoring rises
to the ch

Artificial intelligence has been
applied to many areas of
science and technology,
including the power and energy

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sector. Renewable energy in particular has experienced the tremendous positive impact of these developments. With the recent evolution of smart energy technologies, engineers and scientists working in this

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sector need an exhaustive source of current knowledge to effectively cater to the energy needs of citizens of developing countries. Computational Methodologies for Electrical and Electronics Engineers is a

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collection of innovative research that provides a complete insight and overview of the application of intelligent computational techniques in power and energy. Featuring research on a wide range of topics such as artificial

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neural networks, smart grids, and soft computing, this book is ideally designed for programmers, engineers, technicians, ecologists, entrepreneurs, researchers, academicians, and students.

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Following a concise overview of fluid mechanics informed by numerous engineering applications and examples, this reference presents and analyzes major types of fluid machinery and the major classes of

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turbines, as well as pump technology. It offers professionals and students in hydraulic engineering with background concepts as well as practical coverage of modern turbine technologies, fully

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explaining the advantages of both steam and gas turbines. Description, design, and operational information for the Pelton, Francis, Propeller, and Kaplan turbines are provided, as are outlines of various types of

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power plants. It provides solved examples, chapter problems, and a thorough case study.

Fluid Power

Engineering McGraw Hill

Professional

Understanding Small Systems

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Publication

Life and Design

National Union Catalog

Fusion of Optical and

Mechatronic Engineering

Machine Elements

Design for Efficiency, Revised

Second Edition

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For a few seconds with large machines, scientists and engineers have now created the fusion power of the stars in the laboratory and at the same time

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find the rich range of complex turbulent electromagnetic waves that transport the plasma confinement systems. The turbulent transport mechanisms

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created in the
laboratory are explained
in detail in the second
edition of "Turbulent
Transport in Magnetized
Plasmas" by Professor
Horton. The principles

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and properties of the major plasma confinement machines are explored with basic physics to the extent currently understood. For the observational laws that

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are not understood – the empirical confinement laws – offering challenges to the next generation of plasma students and researchers – are explained in

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detail. An example, is the confinement regime – called the "I-mode" – currently a hot topic – is explored. Numerous important problems and puzzles for the next

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generation of plasma
scientists are
explained. There is
growing demand for new
simulation codes
utilizing the massively
parallel computers with

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MPI and GPU methods.

When the 20 billion
dollar ITER machine is
tested in the 2020ies,
new theories and
faster/smarter computer
simulations running in

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near real-time control systems will be used to control the burning hydrogen plasmas.

Written by Dr. E.C.

Fitch, the book contains over 340 double column

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pages which include 400
figures and tables, a
comprehensive
bibliography, and index.
There is no root cause
of mechanical failure,
known to the author,

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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

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as a reference and guide
to designers, practising
engineers, maintenance
technicians, plant
managers and operators
who must design,
maintain and operate

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fluid-dependent
mechanical systems.

An antidote to
mathematical rigor
mortis, teaching how to
guess answers without
needing a proof or an

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exact calculation. In
problem solving, as in
street fighting, rules
are for fools: do
whatever works—don't
just stand there! Yet we
often fear an

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unjustified leap even though it may land us on a correct result.

Traditional mathematics teaching is largely about solving exactly stated problems exactly,

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yet life often hands us partly defined problems needing only moderately accurate solutions. This engaging book is an antidote to the rigor mortis brought on by too

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much mathematical rigor,
teaching us how to guess
answers without needing
a proof or an exact
calculation. In Street-
Fighting Mathematics,
Sanjoy Mahajan builds,

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sharpens, and
demonstrates tools for
educated guessing and
down-and-dirty,
opportunistic problem
solving across diverse
fields of knowledge—from

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mathematics to
management. Mahajan
describes six tools:
dimensional analysis,
easy cases, lumping,
picture proofs,
successive

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approximation, and reasoning by analogy. Illustrating each tool with numerous examples, he carefully separates the tool—the general principle—from the

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particular application
so that the reader can
most easily grasp the
tool itself to use on
problems of particular
interest. Street-
Fighting Mathematics

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grew out of a short
course taught by the
author at MIT for
students ranging from
first-year
undergraduates to
graduate students ready

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for careers in physics,
mathematics, management,
electrical engineering,
computer science, and
biology. They benefited
from an approach that
avoided rigor and taught

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them how to use
mathematics to solve
real problems. Street-
Fighting Mathematics
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Representing an evolutionary leap, the integration of optical technologies into mechatronic systems adds a new dimension to an

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already multifaceted field. Optical elements enhance the functionality of mechatronics and in many cases introduce entirely new capabilities.

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Likewise, mechatronic elements bring the same synergistic effects to optical systems.

However, most books focus on traditional mechatronics while only

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briefly discussing, or
omitting completely, the
characteristics of
optomechatronic
technology. Bringing
together the
fundamentals and

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underlying concepts,
Optomechatronics
provides a detailed
introduction to this
growing field. With
emphasis on the
importance of

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interdisciplinary,
multiple-technology
fusion, this book
threads together the
background, definition,
and characteristics of
the field with an

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integrated view of various disciplines, a system-oriented approach, and a combined view of the macro/micro worlds. It begins with an analysis of a variety

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of practical
optomechatronic systems
to identify the
underlying concepts and
features of each area
composing the field.
These systems include

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optics, machine vision,
feedback control, and
micro-opto-mechanical
systems (MOEMS). From
this platform, the
author demonstrates how
to fuse the optical,

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mechanical, electronic,
and microprocessor
elements to realize
desired functionalities.
Finally, the book
examines whole
optomechatronic systems

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comprising the
components described in
the previous section.
Whether you are new to
the field or have
experience in a
different engineering

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discipline,

Optomechatronics

supplies the necessary

tools to harness the

benefits that optical

technologies bring to

this important emerging

Where To Download Fluid Power Engineering Mahajan Publication area.

The Product Liability
Handbook
With Applications to
Ultrasonic
Nondestructive
Evaluation

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Proactive Maintenance
for Mechanical Systems
Proceedings of the 2nd
International Conference
on Intelligent
Technologies and
Engineering Systems

Where To Download Fluid Power Engineering Mahajan Publication

(ICITES2013)

Nuclear Engineering
Handbook

Journal of Research of
the National Bureau of
Standards

While ultra-precision

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machines are now achieving sub-nanometer accuracy, unique challenges continue to arise due to their tight specifications. Written to meet the growing

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needs of mechanical
engineers and other
professionals to
understand these
specialized design
process issues,
Introduction to

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Precision Machine Design
and Error Assessment
places

Develop high-performance
hydraulic and pneumatic
power systems Design,
operate, and maintain

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fluid and pneumatic
power equipment using
the expert information
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the lumped parameter
model Minimize power
losses due to friction,
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resistance Construct and
operate accumulators,
pressure switches, and

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filters Develop
mathematical models of
electrohydraulic
servosystems Convert
hydraulic power into
mechanical energy using
actuators Precisely

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control load

displacement using HSAs
and control valves Apply
fluid systems techniques
to pneumatic power
systems

New applications for

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composite materials are being developed at a rapid pace. However, their complex microstructures present considerable challenges for nondestructive

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testing and
characterization.

Ultrasonic waves provide
quantitative means of
nondestructive
evaluation of these
materials and

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structures. For this purpose, it is necessary to obtain

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Numerous applications of
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technology in robotics,
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and other mechatronic systems are presented in this book. The book begins by introducing control engineering in robotics and industrial automation. It

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scrubber systems; robot
localization; and,
autonomous navigation
systems. Coverage of
swarm robotics behaviors
and applications of
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biomedical technology,
and structural analysis
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needs of its chosen topic, making this book accessible and useful to researchers, engineers, postgraduates, and undergraduate students. Handbook of Porous Media

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Control, Operation and
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Computer Techniques in
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*As our knowledge of
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inertial sensors,
micromachined pressure
sensors, surface
micromachined devices,
microscale vacuum pumps,
reactive control for skin-*

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*friction reduction, and
microchannel heat sinks,
among many others. Two new
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microactuators and nonlinear
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sector, the book includes examples that highlight the cost-effectiveness of some of these technologies. It introduces basic methods for designing and sizing cost-effective systems and determining whether it is

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and the fundamentals for dealing with complex investment decisions. The book also describes energy audit producers commonly used to improve the energy efficiency of residential and commercial buildings as

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