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This edition of the text covers the latest developments in automotive design, construction, operation, diagnosis, and service. The text integrates the new with the old,

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simplifying
explanations,
shortening
sentences, and
improving readability.
Hundreds of
illustrations cover
new developments,
especially those
relating to the foreign
automotive industry
and federal laws
governing
automotive air

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pollution, safety, and fuel economy. The Tenth Edition contains two four-color illustrated sections. Many chapters end with vocabulary words and "think-type" review questions, in addition to the National Institute of Automotive Service Excellence (ASE)

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style of multiple-choice questions. For schools seeking program certification by the national Automotive Technicians Education Foundation (NATEF), the high-priority items from their diagnosis, service, and repair task lists have been included.

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The second edition of
Automobile

Mechanical and
Electrical Systems
concentrates on core
technologies to
provide the essential
information required
to understand how
different vehicle
systems work. It
gives a complete
overview of the
components and

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works of a vehicle
from the engine
through to the
chassis and
electronics. It also
explains the
necessary tools and
equipment needed in
effective car
maintenance and
repair, and relevant
safety procedures are
included throughout.
Designed to make

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learning easier, this
book contains:

Photographs, flow
charts and quick
reference tables

Detailed diagrams
and clear

descriptions that
simplify the more
complicated topics
and aid revision

Useful features
throughout, including
definitions, key facts

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and 'safety first' considerations. In full colour and with support materials from the author's website (www.automotive-technology.org), this is the guide no student enrolled on an automotive maintenance and repair course should be without.

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3. Investing in people.

The welding process is used by manufacturing companies worldwide. Due to this broad application, many studies have been carried out in various fields to improve the quality and reduce the cost of welded

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components and structures. Welding is a complex and non-linear physical and mechanistic process. This book relates the importance of automation and control in welding processes, highlights some modern processes, and shows, among other influential welding

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factors, the

importance of metal
thermomechanical
processing studies.

Product Design for
the Environment
The Journal of the
American Society of
Mechanical Engineers
Proceedings of the
First World Congress
on Engineering Asset
Management
(WCEAM) 2006

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Immunology and
Evolution of

Infectious Disease
Formulas for Stress,
Strain, and Structural
Matrices

ARDUINO PROJECT
FOR ENGINEERS

**This reference
illustrates the
interaction and
operation of
transformer and
system components**

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**and spans more
than two decades of
technological
advancement to
provide an updated
perspective on the
increasing demands
and requirements of
the modern
transformer
industry. Guiding
engineers through
everyday design
challenges and**

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**difficulties such as
stray loss**

**estimation and
control, prediction
of winding hot
spots, and
calculation of
various stress levels
and performance
figures, the book
propagates the use
of advanced
computational tools
for the optimization**

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**and quality
enhancement of
power system
transformers and
encompasses every
key aspect of
transformer
function, design,
and engineering.
It is with great
pleasure that we
welcome you to the
inaugural World
Congress on**

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**Engineering Asset
Management**

**(WCEAM) being held
at the Conrad
Jupiters Hotel on
the Gold Coast from
July 11 to 14, 2006.
More than 170
authors from 28
countries have
contributed over 160
papers to be
presented over the
first three days of**

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the conference. Day
four will be host to a
series of workshops
devoted to the
practice of various
aspects of
Engineering Asset
Management.

WCEAM is a new
annual global forum
on the various
multidisciplinary
aspects of
Engineering Asset

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Management. It deals with the presentation and publication of outputs of research and development activities as well as the application of knowledge in the practical aspects of: strategic asset management risk management in asset management

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**design and life-cycle
integrity of physical
assets asset
performance and
level of service
models financial
analysis methods
for physical assets
reliability modelling
and prognostics
information systems
and knowledge
management asset
data management,**

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**warehousing and
mining condition
monitoring and
intelligent
maintenance
intelligent sensors
and devices
regulations and
standards in asset
management human
dimensions in
integrated asset
management
education and**

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**training in asset
management and
performance
management in
asset management.
We have attracted
academics,
practitioners and
scientists from
around the world to
share their
knowledge in this
important emerging
transdiscipline that**

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**impacts on almost
every aspect of daily
life.**

**A narrative like no
other: a cultural
history that explores
how cars have both
propelled and
reflected the
American
experience— from
the Model T to the
Prius. From the
assembly lines of**

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Henry Ford to the open roads of Route 66, from the lore of Jack Kerouac to the sex appeal of the Hot Rod, America's history is a vehicular history—an idea brought brilliantly to life in this major work by Pulitzer Prize-winning journalist Paul

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Nokra
Ingrassia. Ingrassia

**offers a wondrous
epic in fifteen
automobiles,
including the
Corvette, the Beetle,
and the Chevy
Corvair, as well as
the personalities
and tales behind
them: Robert
McNamara's
unlikely role in Lee
Iacocca's Mustang,**

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John Z. DeLorean's Pontiac GTO , Henry Ford's Model T, as well as Honda's Accord, the BMW 3 Series, and the Jeep, among others. Through these cars and these characters, Ingrassia shows how the car has expressed the particularly

American tension between the lure of freedom and the obligations of utility. He also takes us through the rise of American manufacturing, the suburbanization of the country, the birth of the hippie and the yuppie, the emancipation of women, and many

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more fateful
episodes and eras,
including the car's
unintended
consequences: trial
lawyers, energy
crises, and urban
sprawl. Narrative
history of the
highest caliber,
Engines of Change
is an entirely
edifying new way to
look at the American

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story.

**Introduction * The
Chassis**

Construction *

Clutches *

Transmission 1 *

Transmission 2 *

The Drive Line *

Suspension System

*** Front Axle and**

Steering * Wheels

and Tyres * Brakes-I

*** Brakes - II ***

Lighting System *

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Nakra
**Accessories * Body
and Safety**

Considerations *

Vehicle Chassis

Specifications *

Automobile Shop

Equipment *

Automotive

Materials*

Miscellaneous

Topics * Appendix *

Index.

A Life Cycle

Approach

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**Mathematics and
Computation in**

Music

Automobile

Mechanical and

Electrical Systems

Engines of Change

Fractional Order

Control and

Synchronization of

Chaotic Systems

By 2030, 20

percent of the

world's drivers,

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***60 million in all,
will be over the
age of 65.***

***Consequently,
safe and efficient
mobility for older
adults is a
complex and
pressing issue.***

***Maintaining Safe
Mobility in an
Aging Society
addresses the
complexities***

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***surrounding the
booming number
of aging drivers
and practical
solutions for
sustaining safe
transportation
for this growing
group. This
plainspoken
resource informs
safe mobility
discussions on a
variety of areas,***

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including:

***Necessary skills
for safe driving
and how age
affects them***

***Current evidence
on how medical
conditions and
medication
hinder driving
skills***

***Comprehensive
screening
description and***

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***assessment
practices, issues,
and tools
Sensitive ways to
help older
drivers transition
into driving
cessation Impact
of advanced
vehicle
technology on
aging drivers
Approaches to
strengthening***

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***safety-conscious
licensing policies***

***Draws the
Significant Link
Between Mobility
and Well Being***

***In addition to
discussing how
age impacts both
the risk and
severity of
accidents and
the link between
mobility and well-***

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being, this authoritative work discusses means to achieve safer mobility, including roadway design and community transportation options.

Authored by driver safety and awareness experts, it covers

***psychological
and physical
changes
associated with
age (both normal
and
pathological),
including an
important but
rarely explored
aspect of
dementia known
as wandering
behavior. It also***

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***addresses the
role of emerging
technology.***

***Maintaining Safe
Mobility in an
Aging Society is
a concise
reference that
encompasses an
impressive
breadth of ready-
to-access
information.***

Thorough and

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***systematically
organized, it is a
groundbreaking
and
indispensable
resource for
those providing
services to
seniors as well as
those responsible
for
transportation
policy and
design.***

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Automatic

Control Systems I

nternational

Books in Print A

Text Book of

Automobile Engi

neering Firewall

Media Transform

er Engineering De

sign and

Practice CRC

Press

In recent years

the increased

awareness of environmental issues has led to the development of new approaches to product design, known as Design for Environment and Life Cycle Design. Although still considered emerging and in some cases

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*radical, their
principles will
become, by
necessity, the
wave of the
future in design.
A thorough
exploration of
the subject,
Product Design
for the
Environment: A
Life Cycle
Approach*

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***presents key
concepts, basic
design
frameworks and
techniques, and
practical
applications. It
identifies
effective
methods and
tools for product
design, stressing
the
environmental***

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***performance of
products over
their whole life
cycle. After
introducing the
concepts of
Sustainable
Development, the
authors discuss
Industrial
Ecology and
Design for
Environment as
defined in the***

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literature. They present the life cycle theory and approach, explore how to apply it, and define its main techniques. The book then covers the main premises of product design and development,

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*Engineering Co
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***delineating how
to effectively
integrate
environmental
aspects in
modern product
design. The
authors pay
particular
attention to
environmental
strategies that
can aid the
achievement of***

*the requisites of
eco-efficiency in
various phases of
the product life
cycle. They go on
to explore how
these strategies
are closely
related to the
functional
performance of
the product and
its components,
and, therefore, to*

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*some aspects of
conventional
engineering
design. The book
also introduces
phenomena of
performance
deterioration,
together with
principles of
design for
component
durability, and
methods for the*

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**assessment of
residual life.**

**Finally, the book
defines entirely
new methods and
tools in relation
to strategic
issues of Life
Cycle Design.
Each theme
provides an
introduction to
the problems and
original**

*proposals based
on the authors'
experience. The
authors then
discuss the
implementation
of these new
concepts in
design practice,
differentiating
between levels of
intervention and
demonstrating
their use and*

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*effectiveness in
specific case
studies. The book
not only presents
evidence of the
potential of the
approach and
methods
proposed, but
also analyzes
some of the
problems
involved in
developing eco-*

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***compatible
products in the
company context.
The definitive
visual history of
the automobile
The Car Book
stylishly shows
you everything
you might want
to know about
the history of the
automobile. With
stunning visual***

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Nakro*
**images and over
2,000 cars
featured, the
evolution of the
car is tracked
from decade to
decade and
across
international
borders, from
India's
Ambassador to
Italy's Alfa
Romeo. Ever**

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wondered how

Porsche and

Chevrolet

became

household

names? Discover

the stories

behind the men

and the

machines that

created the most

famous marques

and take a virtual

tour of the

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***anatomy of
iconic cars from
each era. If you
love cars, then
you'll love this -
The Car Book is
simply a must-
have title for all
car enthusiasts.
A Text Book of
Automobile
Engineering
Discrete-data
Control Systems***

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**Refrigeration
and Air**

**Conditioning
Automobile
Engineering
Workshop
Practice Manual
Technical papers
presented and
available**

This book covers the whole range of today's technology for pneumatic drives. It

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details drives for factory automation and automotive applications as well as describes the technology for the process industry like positioners or spring-and-diaphragm. In addition, the book examines several control strategies like binary mode cylinder drives or position controlled drives and

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computer aided analysis
of complex systems.

The book reports on the
latest advances in and

applications of

fractional order control

and synchronization of

chaotic systems,

explaining the concepts

involved in a clear,

matter-of-fact style. It

consists of 30 original

contributions written by

eminent scientists and

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active researchers in the field that address theories, methods and applications in a number of research areas related to fractional order control and synchronization of chaotic systems, such as: fractional chaotic systems, hyperchaotic systems, complex systems, fractional order discrete chaotic

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systems, chaos control, chaos synchronization, jerk circuits, fractional chaotic systems with hidden attractors, neural network, fuzzy logic controllers, behavioral modeling, robust and adaptive control, sliding mode control, different types of synchronization, circuit realization of chaotic systems, etc. In

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in addition to providing readers extensive information on chaos fundamentals, fractional calculus, fractional differential equations, fractional control and stability, the book also discusses key applications of fractional order chaotic systems, as well as multidisciplinary solutions developed via

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control modeling. As such, it offers the perfect reference guide for graduate students, researchers and practitioners in the areas of fractional order control systems and fractional order chaotic systems.

Worksheets are included to act as observation book for taking readings. Tips on

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practical application of
the tools and

instruments are given

Adages found in each

page are unique for

motivation and

personality development

of the students

Illustrations of the tools

used in various sections

of workshop are

provided

This is the story of six

extraordinary men who

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each built something from nothing, redefined the automotive industry after World War II, and redirected its course for the future: Henry Ford II (visionary autocrat with an iron will), Shoichiro Honda (most successful automotive entrepreneur since Henry Ford I), Eberhard von Kuenheim (founder of the modern

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BMW), Lee Iacocca,
Ferdinand Piech

(builder of Volkswagen Group) and Robert Lutz (who left retirement at 70 and is still highly influential at General Motors). What made them special was the sheer volume of fundamental change they brought to the largest industry in the history of the world.

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They not only re-shaped the auto business, the six made a sizable dent in the societies they lived in. To a man they were great cognitive thinkers. Their minds worked with animal speed, even instinct speed. But more than anything these were brave and cantankerous souls who rode the waves of history. Each

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could see the future. They could just make it out-sometimes imperfectly, but could see it nonetheless. They took a business that had begun to mature and decline by the 1930s and found ways to make it fresh and whole again.- The compelling story of the global car business over the past half-century.- A lively

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and engaging narrative
that recounts some times
collaborative,
sometimes archly
antagonistic
interactions among the
men- Full of business
revelations at the
highest level, written by
a journalist operating at
the heart of the
industry- Global appeal
that shows how
automotive groups in

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the USA, Europe and Asia have influenced each other- A business story interlaced with personal details that explains why the six were determined to be successful. --Publisher.

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Sound and Music

Computing

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and Electronics

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International Books in
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Maintaining Safe
Mobility in an Aging
Society
Welding

***This work has
been selected by
scholars as being
culturally
important, and is
part of the
knowledge base***

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and relevant.***

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Publisher

Description

Separation

Process

Principles with

Applications

Using Process

Simulator, 4th

Edition is the

most

comprehensive

and up-to-date

treatment of the

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major separation operations in the chemical industry. The 4th edition focuses on using process simulators to design separation processes and prepares readers for professional practice.

Completely

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***rewritten to
enhance clarity,
this fourth
edition provides
engineers with a
strong
understanding of
the field. With
the help of an
additional co-
author, the text
presents new
information on***

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***bioseparations
throughout the
chapters. A new
chapter on
mechanical
separations
covers settling,
filtration and
centrifugation
including
mechanical
separations in
biotechnology***

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and cell lysis.

**Boxes help
highlight
fundamental
equations.**

**Numerous new
examples and
exercises are
integrated
throughout as
well.**

**This book
presents select**

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***proceedings of
the International
Conference on
Advances in
Sustainable
Technologies
(ICAST 2020),
organized by
Lovely
Professional
University,
Punjab, India.
The topics***

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**covered in this
book are**

***multidisciplinary
in nature. The
primary topics
included in the
book are from the
domains of
automobile
engineering,
mechatronics,
material science
and engineering,***

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**aerospace
engineering, bio-
mechanics,
biomedical
instrumentation,
mathematical
techniques,
agricultural
engineering,
nuclear
engineering,
physics,
biodynamic**

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**modelling and
ergonomics etc.**

**The contents of
this book will be
beneficial for
beginners,
researchers, and
professionals
alike.**

**Design and
Practice
Automotive
Mechanics**

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**Sub-Saharan
Africa**

**Separation
Process**

**Principles with
Applications
Using Process
Simulators, 4th
Edition**

**Design,
Technology, and
Diagnostics,
Second Edition**

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***Fluid-Structure
Interactions***

This book
constitutes the
thoroughly refereed
proceedings of the
Fourth International
Conference on
Mathematics and
Computation in
Music, MCM 2013,
held in Montreal,

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Canada, in June
2013. The 18 papers
presented were
carefully reviewed
and selected from
numerous
submissions. They
are promoting the
collaboration and
exchange of ideas
among researchers in
music theory,

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mathematics,
computer science,
musicology,
cognition and other
related fields.

The text begins by
reviewing, in a
simple and precise
manner, the physical
principles of three
pillars of

Refrigeration and

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Air Conditioning,
namely

thermodynamics,
heat transfer, and
fluid mechanics.

Following an
overview of the
history of
refrigeration,
subsequent chapters
provide exhaustive
coverage of the

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principles,
applications and
design of several
types of refrigeration
systems and their
associated
components such as
compressors,
condensers,
evaporators, and
expansion devices.

Refrigerants too, are

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studied elaboratively
in an exclusive
chapter. The second
part of the book,
beginning with the
historical
background of air
conditioning in
Chapter 15,
discusses the subject
of psychrometrics
being at the heart of

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understanding the
design and

implementation of
air conditioning
processes and
systems, which are
subsequently dealt
with in Chapters 16
to 23. It also
explains the design
practices followed
for cooling and

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heating load
calculations. Each
chapter contains
several worked-out
examples that clarify
the material
discussed and
illustrate the use of
basic principles in
engineering
applications. Each
chapter also ends

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with a set of few
review questions to
serve as revision of
the material learned.
Hardbound. The
computer-aided
methods presented in
this book represent
recent advances in
the methodology for
predicting and
evaluating off-road

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vehicle performance.

The mathematical models established for vehicle-terrain systems will enable the engineering practitioner to evaluate, on a rational basis, a wide range of options and to select an appropriate vehicle

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configuration for a given mission and environment. The models take into account all major design and operational parameters, as well as pertinent terrain characteristics. Applications of the computer-aided

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engineering methods
to the parametric
analysis of off-road
vehicle design are
demonstrated
through examples.

Aim is to provide a
broad understanding
of the many systems
and component parts
that constitute the
vehicle electrical and

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electronics in a detailed way. The book should also be a valuable source of information and reference. The book provides clear explanation of vehicle electrical and electronic components and systems with unique

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illustrations, which should be of value both to the students and to the experienced faculty members. Each chapter takes the reader systematically through the details of each component system. Key topics are emphasized and

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are reinforced by
numerous

illustrations.

Fuel Cell

Technology

Handbook

Gas Turbines and Jet

Propulsion

Computer Music

Modeling and

Retrieval

4th International

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Conference, MCM
2013, Montreal,
Canada, June 12-14,
2013, Proceedings
From Crisis to
Sustainable Growth :
a Long-term
Perspective Study
Third International
Symposium, CMMR
2005, Pisa, Italy,
September 26-28,

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2005, Revised

Papers

Fuel cell systems have now reached a degree of technological maturity and appear destined to form the cornerstone of future energy technologies. But

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the rapid
advances in fuel
cell system
development
have left current
information
available only in
scattered
journals and
Internet sites.
The even faster
race toward fuel

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cell commercializ
ation further

Due to strong
potential
applications and
more demanding
requirements
imposed upon
long and thick
cylindrical
structures, there
has been

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increasing
research and
development
activities during
recent years in
the field of
vibration and
passive vibration
control of these
types of
structures. An
important step in

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the study of
cylindrical
structures is the
determination of
their vibration
modal
characteristics.
This modal
information plays
a key role in the
design and
vibration

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suppression of these structures when subjected to dynamic excitations. Most reported studies on the dynamic response of cylindrical structures have been restricted to the application of

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the shell theories.
These theories
are based on a
number of
simplifying
assumptions. The
most important of
which is, the
considered shell
must be relatively
thin to assume
constant stresses

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within the
cylinder.

Therefore, due to
this limitation,
shell theories are
inadequate to
accurately
describe all
possible
vibration modes
in thick
cylindrical

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structures. The primary scope of this book is to address these problems by applying the theory of elasto-dynamics.

Since the 1950's, Sound and Music Computing (SMC) research has

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been producing a profound impact on the development of culture and technology in our post-industrial society. SMC research approaches the whole sound and music

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communication
chain from a
multidisciplinary
point of view. By
combining
scientific,
technological and
artistic
methodologies it
aims at
understanding,
modelling,

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representing and
producing sound
and music using
computational
approaches. This
book, by
describing the
state of the art in
SMC research,
gives hints of
future
developments,

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whose general purpose will be to bridge the semantic gap, the hiatus that currently separates sound from sense and sense from sound.

This book constitutes the

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post-proceedings
of the Third
International
Computer Music
Modeling and
Retrieval
Symposium,
CMMR 2005. The
24 revised full
papers address a
broad variety of
topics, organized

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in topical
sections on
sound synthesis;
music perception
and cognition;
interactive music:
interface,
interaction,
gestures and
sensors, music
composition;
music retrieval;

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music
performance,
music analysis,
music
representation;
as well as
interdisciplinarity
and computer
music.

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Modelling and
Control

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The Definitive
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System Design links everything diesel engineers need to know about engine performance and system design in order for them to master all the essential topics quickly and to solve practical design problems. Based on the author's unique

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experience in the field, it enables engineers to come up with an appropriate specification at an early stage in the product development cycle. Links everything diesel engineers need to know about engine performance

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and system design
featuring essential
topics and
techniques to solve
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problems Focuses
on engine
performance and
system integration
including important
approaches for
modelling and
analysis Explores

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fundamental
concepts and
generic techniques
in diesel engine
system design
incorporating
durability, reliability
and optimization
theories

Structures in contact
with fluid flow,
whether natural or
man-made, are

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inevitably subject to flow-induced forces and flow-induced vibration: from plant leaves to traffic signs and to more substantial structures, such as bridge decks and heat exchanger tubes. Under certain conditions the vibration may be

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self-excited, and it is usually referred to as an instability.

These instabilities and, more specifically, the conditions under which they arise are of great importance to designers and operators of the systems concerned because of the

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significant potential to cause damage in the short term. Such flow-induced instabilities are the subject of this book. In particular, the flow-induced instabilities treated in this book are associated with cross-flow, that is, flow normal to the

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long axis of the structure. The book treats a specific set of problems that are fundamentally and technologically important: galloping, vortex-shedding oscillations under lock-in conditions and rain-and-wind-induced vibrations, among others.

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Transformer
Engineering:
Design, Technology,
and Diagnostics,
Second Edition
helps you design
better transformers,
apply advanced
numerical field
computations more
effectively, and
tackle operational
and maintenance

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issues. Building on
the bestselling

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and Practice, this

greatly expanded

second edition also

emphasizes

diagnostic aspects

and transformer-

system interactions.

What ' s New in This

Edition Three new

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chapters on
electromagnetic
fields in
transformers,
transformer-system
interactions and
modeling, and
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chapter on recent
trends in
transformer

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of theory and practice, this comprehensive book examines aspects of transformer engineering, from design to diagnostics. It thoroughly explains electromagnetic fields and the finite element method to

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help you solve
practical problems
related to
transformers.

Coverage includes
important design
challenges, such as
eddy and stray loss
evaluation and
control, transient
response, short-
circuit withstand and
strength, and

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insulation design.

The authors also
give pointers for
further research.

Students and
engineers starting
their careers will
appreciate the
sample design of a
typical power
transformer.

Presenting in-depth
explanations,

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modern
computational
techniques, and
emerging trends,
this is a valuable
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working in the
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industry, as well as
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researchers. It
offers guidance in
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enhancing
transformer design,
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highly competitive
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