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thoroughly revised and brought up-to-date. Multicolor pictures have been added to enhance the content value and to give the students and idea of what he will be dealing in relity, and to bridge the gap between theory and Practice.

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While writing the book, we have continuously kept in mind the examination requirements of the students preparing for U.P.S.C.(Engg. Services) and A.M.I. E.(I) examinations. In order to make this volume more useful for them, complete

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solutions of their examination papers up to 1975 have also been included. Every care has been taken to make this treatise as self-explanatory as possible. The subject matter has been amply illustrated by incorporating a

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Different Stages
From Design To
Marketing And
Integration Of

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Information And Its
Effective
Communication
Among The Various
Activities Like
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Process Planning,
Production Planning
And Control,
Manufacturing,
Inspection,
Materials Handling

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Etc., Which Are Individually Carried Out Through Computer Software. Seamless Transfer Of Information From One Application To Another Is What Is Aimed At. This Book Gives A Detailed Account Of The Various Technologies Which

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Based Automation
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Standardisation
Of graphics Data,
Communication,
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Engineering Have
Been Explained And
Latest Software In
The Various
Application Areas
Have Been
Introduced. The
Book Is Written

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TECHNOLOGY

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Engineering

CNC Machines

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Lucid Treatment Of A
Wide Range Of Issues
Involved In The
Development Of
Entrepreneurship. It
Presents An Insight

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Into The Identification
Of Business
Opportunities,
Creating A Venture
And Financing And
Managing It. The Book
Further Explains The
Choice Of Technology
And Equipment, Man,
Machine And
Materials
Management, Pert
And Cpm And Quality
Assurance. The Book

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And Step-By-Step
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"Emphasizes the
industrial relevance of
the subject matter,
dispenses with
conventional
inaccurate graphical
methods used in

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Kinematics of plane mechanisms, cams and balancing. Instead presents general vector approach for both plane and space mechanisms."--BOOK JACKET.

This edition of the text covers the latest developments in automotive design, construction, operation, diagnosis,

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and service. The text integrates the new with the old, simplifying explanations, shortening sentences, and improving readability. Hundreds of illustrations cover new developments, especially those relating to the foreign automotive industry and federal laws

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governing automotive
air 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) style of multiple-

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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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Fundamental Concept
in Environmental
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curriculum. The derec
experience

Curriculum Evaluation
In Malaysia:
Aspirations And
Realities

A Text Book of Theory
of Machines

***The text begins
by reviewing, in***

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***a simple and
precise manner,
the physical
principles of
three pillars of
Refrigeration
and Air
Conditioning,
namely thermo
dynamics, heat
transfer, and
fluid
mechanics.***

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***Following an
overview of the
history of
refrigeration,
subsequent
chapters
provide
exhaustive
coverage of the
principles,
applications
and design of
several types of***

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Diploma
**refrigeration
systems and
their associated
components
such as**

**compressors,
condensers,
evaporators,
and expansion
devices.**

**Refrigerants
too, are studied
elaboratively in**

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*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*

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**heart of
understanding
the design and
implementation
of air**

**conditioning
processes and
systems, which
are
subsequently
dealt with in
Chapters 16 to
23. It also**

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***explains the
design
practices
followed for
cooling and
heating load
calculations.
Each chapter
contains
several worked-
out examples
that clarify the
material***

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***discussed and
illustrate the
use of basic
principles in
engineering
applications.
Each chapter
also ends with
a set of few
review
questions to
serve as
revision of the***

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Diploma
**material
learned.**

***The inclination
towards two
wheelers is not
newer to the
world. From the
very beginning,
two wheelers
are recognized
as a mark of
triumph,
independence***

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***and joy. These
are considered
fast, safe and
easy mode of
transportation
with worthy
fuel economy.
With the arrival
of automation
and electronics
in two
wheelers, the
study gained***

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more

momentum,

which led Two

and Three

Wheeler

Technology to

emerge as a

new discipline

of automobile

engineering.

The book

explains

traditional and

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**modern
technologies in
an easy to
understand
manner.**

**Various
technologies
have been
explicated with
appropriate 2D
and 3D
diagrams to
support**

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***learning. Text
comprises the
state-of-the-art
developments
in the field of
two wheelers.
Detailed
explanation on
the actual
assemblies
helps the
students to
cognize the***

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**technology
systematically.
Although the
emphasis has
been given to
the two
wheeler
technology,
considering the
requirement of
various syllabi,
the last chapter
is solely**

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***dedicated to
three wheeler
technology.
Chapter-end
review***

***questions help
students in
preparing them
for examination
by self-
assessment
method.***

Primarily

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*designed for
the
undergraduate
and diploma
students of
automobile
engineering,
the lucid and
simple
presentation of
the book makes
it useful for the
commoner, who*

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*has keen
interest in this
area. It is a
useful guide for
a vehicle owner
for
understanding
mechanism and
parts, which
may help him in
maintaining his
vehicle at best
efficiency.*

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***Fluid Mechanics
and Machinery
features
exhaustive
coverage of the
essential
concepts of the
mechanics of
fluids, both
static and
dynamic. It also
provides an
overview of the***

Where To
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***design and
operation of
various
hydraulic
machines such
as pumps and
turbines. The
book also
features
numerous
solved
examples in
order to help***

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**students grasp
the
fundamentals
and apply them
to real-life
situations.**

**Beginning with
discussion of
the properties
of fluids, Fluid
Mechanics and
Machinery
gives detailed**

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***information on
topics such as
fluid pressure
and its
measurement,
principles of
buoyancy and
flotation, and
fluid statics,
kinematics, and
dynamics. It
then moves on
to discuss***

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Solapur

***dimensional
analysis and
flow of fluids
through
orifices,
mouthpieces,
and pipes, and
over notches
and weirs. More
advanced
topics such as
vortex flow,
impact of jets,***

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Scheme

***and flow of
compressible
fluids are then
dealt with in
separate
chapters.
Finally, a
thorough
overview of the
design and
operation of
various fluid
machines such***

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Download

***as pumps and
turbines***

***explains the
practical***

***applications of
fluid forces to
students.***

***Mechanical
Measurements***

***Gas Turbines
and Jet***

***Propulsion
Information***

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**Basic And
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dynamics**

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Evaluation In
Malaysia:
Aspirations And
Realities
Curriculum

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evaluation is among the popular areas of research in education in Malaysia. This inaugural lecture book aims to compare the aspirations and realities of curriculum evaluation in the

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country. The aspirations are based on concepts and purposes of curriculum

evaluation and guidelines

provided by some popular curriculum evaluation models.

On the other hand, the realities of

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curriculum
evaluation in
Malaysia are
presented based
on a review of 50
randomly sampled
reports of
curriculum
evaluation. The
review resulted in
a summary of the
current state of

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evaluation
Syllabus 6th
practices in
Semester Msbte G
Malaysia. The
Scheme
comparison of the
aspirations and
realities of the
curriculum
evaluation
practices found a
diversity of
approaches and

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methods used; all studies have evaluative features; most of the evaluation findings are for specific implications to the programme evaluated; the terms 'curriculum evaluation',

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‘programme
evaluation’, and
‘curriculum
research’ are
used

interchangeably;
less than half of
the reports did not
involve the use of
an evaluation
model; a large
proportion of

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curriculum
evaluation in
higher education
projects focused
on outcome-based
education and
entrepreneurship
education; and
only a handful of
the evaluation
projects were
conducted by

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decision and policy
makers at
ministerial level. In
the light of these
findings,

implications to
policy makers and
curriculum
practitioners are
discussed.

Industrial
Engineering And

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Mechanical
mal Analysis of
Syllabus 6th
MaterialsCRC
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This book provides
a first course in
Refrigeration and
Air Conditioning.
The subject matter
has been
developed in a
logical and

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coherent manner
with neat
illustrations and a
fairly large number
of solved
examples and
unsolved
problems. The
text, developed
from the author's
teaching
experience of

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many years, is
suitable for the
senior-level
undergraduate and
first-year

postgraduate
students of
mechanical
engineering,
automobile
engineering as
well as chemical

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engineering. The text commences with an introduction to the fundamentals of thermodynamics and a brief treatment of the various methods of refrigeration. Then follows the detailed discussion

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and analysis of air
refrigeration
systems, vapour
compression and
vapour absorption
refrigeration
systems with
special emphasis
on developing
sound physical
concepts and
gaining problem

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solving skills.
Refrigerants are exhaustively dealt with in a separate chapter. The remainder chapters of the book deal with psychrometry and various processes required for the analysis of air

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conditioning systems. Technical descriptions of compressors, evaporators, condensers, expansion devices and ducts are provided along with design practices for cooling and

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heating load
calculations.
Finally, a brief
review of the basic
principles and
applications of
cryogenic gases
and air liquefaction
systems are given.

Theory of
Machines
Textbook of

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Refrigeration and
Air Conditioning
Installation
Servicing and
Maintenance

Automotive
Mechanics

DESIGN OF
MACHINE
ELEMENTS

(Subject Code
MEC 604)

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Discussing the design and optimum use of thermal analysis instrumentation for materials' property measurement, this work details how the instruments work, what they measure, potential pitfalls and the fitting of

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experimental results
to theoretical
models. It presents a
tutorial on writing
computer programs
for data
manipulation,
advanced
thermoanalytical
methods and case
studies.

The 1st edition of

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book entitled
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"Design of Machine
Syllabus 6th
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Engineering Group
as per the syllabus
prescribed by SBTE.

We have observed
the students facing

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extreme difficulties
in understanding the
basic principles and
fundamental
concepts without

adequate solved
problems along with
the text. To meet this
basic requirement of
students, sincere
efforts have been
made to present the

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subject matter with frequent use of figures and lots of numerical examples.

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technicians. With
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detailed illustrations
throughout and
simple, clear

language, this is a
practical
introduction to what
can be a very
complex subject. It
has been
significantly updated

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and revised to include new material on adhesives, protective coatings, plastics and current Health and Safety legislation. It covers all the standard topics, including safe practices, measuring equipment, hand and machine tools,

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materials and joining methods, making it an indispensable handbook for use both in class and the workshop. Its broad coverage makes it a useful reference book for many different courses worldwide.

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Mechanics of
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Basic Managerial
Skills for All
For advanced

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courses in
Automation,
Production

Systems, and Com
puter-Integrated
Manufacturing.

This exploration
of the technical
and engineering
aspects of
automated
production

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systems provides
the most
advanced,
comprehensive,
and balanced
coverage of the
subject of any
text on the
market. It
covers all the
major cutting-
edge
technologies of
production

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automation and
material
handling, and
how these
technologies are
used to
construct modern
manufacturing
systems.

The Importance
Of Environmental
Studies Cannot
Be Disputed
Since The Need

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For Sustainable
Development Is A
Key To The
Future Of
Mankind.

Recognising
This, The
Honourable
Supreme Court Of
India Directed
The Ugc To
Introduce A
Basic Course On
Environmental

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Be Implemented
By Every
University In
The Country.
Accordingly, The
Ugc Constituted
An Expert
Committee To
Formulate A Six-
Month Core

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Ugc S Efforts
And Has Been
Prepared As Per
The Syllabus. It
Is Designed To
Bring About An
Awareness On A
Variety Of

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Behavioural
Pattern In
Society That Is
Based On
Creating
Sustainable
Lifestyles And A
New Ethic

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Issues That
Affect Our Daily
Lives. These
Issues Are
Related To The
Conflict Between
Existing
`Development
Strategies And

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The Need For
Conservation .
It Not Only
Makes The
Student Better
Informed On
These Concerns,
But Is Expected
To Lead The
Student Towards
Positive Action
To Improve The
Environment.

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Approach That
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The Natural
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Textbook Seeks
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Answers To Make
Human
Civilization
Sustainable On

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Structured By
The Ugc, Divided
Into 8 Units And
50 Lectures. The

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First 7 Units,
Which Cover 45
Lectures Are
Classroom
Teaching-Based,
And Enhance
Knowledge Skills
And Attitude To
Environment.
Unit 8 Is Based
On Field
Activities To Be
Covered In 5
Lecture Hours

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And Would
Provide Students
With First Hand
Knowledge On
Various Local
Environmental
Issues.

For B.A. , B.Sc.
, B.Com. ,
B.H.Sc. ,
B.C.A.,
(Management) and
other
Undergraduate

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Scheme
addition to
certain

corrections,

topics like

Hydrologic

Cycle, Air

Pollution, Solar

and Wind

Energies are

modified in the

light of present

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requirement.
Some new topics
like Dissolved
Oxygen,
Biological
Oxygen Demand,
Chemical Oxygen
Demand, Natural
Geysers,
Environmental
Club, Green
Accounting,
Honey and Bee
Keeping, Social

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Forestry are also introduced. With additional data, new topics and necessary diagrammes, the book will be of immense use and more popular among students and readers.

MAINTENANCE
ENGINEERING AND
MANAGEMENT

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Design and
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Machine Drawing
Automation,
Production
Systems, and Com
puter-integrated
Manufacturing
Maintenance of

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equipment,
machinery systems
and allied
infrastructure
comprises the ways
and means of
optimizing the
available resources
of manpower,
materials, tools and
test equipment,
within a set of

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constraints, to help
achieve the targets of
an organization by
minimizing the
downtimes. Whether
the goal is to
produce and sell a
product at a profit or
is simply to perform
a mission in a cost-
effective manner, the
maintenance

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principles discussed
in this text apply
equally to all such
types of

organizations. In
consonance with the
growth of the
industry and its
modernization and
the need to minimize
the downtimes of
machinery and

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equipment, the
engineering
education system has
included
maintenance

engineering as a part
of its curriculum.

This second edition
of the book
continues to focus on
the basics of this
expanding subject,

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with a broad discussion of management aspects as well, for the benefit of the engineering students. It explains the concept of a maintenance system, the evaluation of its maintenance functions,

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maintenance
planning and
scheduling, the
importance of
motivation in
maintenance, the use
of computers in
maintenance and the
economic aspects of
maintenance. This
book also discusses
the manpower

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planning and energy
conservation in
maintenance
management.

Presented in a
readable style, the
book brings together
the numerous
aspects of
maintenance
functions
emphasizing the

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importance of this discipline in the engineering education. In this edition a new chapter titled, Advances in Maintenance (Chapter 21), has been included to widen the coverage of the book. Besides

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the students of
engineering,
especially those in
streams of
mechanical

engineering and its
related disciplines
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