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*Auto Le En
gineering
Diploma
Msbte*

**The design and
analysis of
efficient data
structures has
long been
recognized as**

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a key

**component of
the Computer
Science
curriculum.
Goodrich,
Tomassia and
Goldwasser's
approach to
this classic
topic is based
on the object-**

**oriented
paradigm as
the framework
of choice for
the design of
data
structures.
For each ADT
presented in
the text, the
authors
provide an**

associated

Java

interface.

**Concrete data
structures**

realizing the

ADTs are

provided as

Java classes

implementing

the

interfaces.

The Java code implementing fundamental data structures in this book is organized in a single Java package, net.d atastructures. This package forms a

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**coherent
library of
data
structures and
algorithms in
Java
specifically
designed for
educational
purposes in a
way that is
complimentary**

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**with the Java
Collections
Framework.**

**The present
multicolor
edition has
been thoroughly
revised and
brought up-to-
date. Multicolor
pictures
have been**

**added to
enhance the
content value
and to give
the students
an idea of
what he will
be dealing in
reality, and to
bridge the gap
between theory
and**

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**practice. this
book ahs
already been
include in the
'suggested
reading' for
the A.M.I.E. (I
ndia) examinati
ons.**

**Earthquake
Resistant
Design and**

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Risk

**Reduction, 2nd
edition is
based upon
global
research and
development
work over the
last 50 years
or more, and
follows the
author's**

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**series of
three books
Earthquake
Resistant
Design, 1st
and 2nd
editions (1977
and 1987), and
Earthquake
Risk Reduction
(2003). Many
advances have**

**been made
since the 2003
edition of
Earthquake
Risk
Reduction, and
there is every
sign that this
rate of
progress will
continue apace
in the years**

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to come.

**Compiled from
the author's
wide design
and research
experience in
earthquake
engineering
and
engineering
seismology,
this key text**

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**provides an
excellent
treatment of
the complex mu
ltidisciplinar
y process of
earthquake
resistant
design and
risk
reduction. New
topics include**

**the creation
of low-damage
structures and
the spatial
distribution
of ground
shaking near
large fault
ruptures.
Sections on
guidance for
developing**

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**countries,
response of
buildings to
differential
settlement in
liquefaction,
performance-
based and disp
lacement-based
design and the
architectural
aspects of**

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**earthquake
resistant
design are
heavily
revised. This
book: Outlines
individual
national
weaknesses
that
contribute to
earthquake**

**risk to people
and property
Calculates the
seismic
response of
soils and
structures,
using the
structural
continuum
“Subsoil –
Substructure –**

Superstructure

–

Non-structure”

**Evaluates the
effectiveness**

of given

design and

construction

procedures for

reducing

casualties and

financial

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Diploma Msbte

Losses

Provides

guidance on

the key issue

of choice of

structural

form Presents

earthquake

resistant

design methods

for the main

four

**structural
materials –
steel,
concrete,
reinforced
masonry and
timber – as
well as for
services
equipment,
plant and non-
structural**

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**architectural
components
Contains a
chapter
devoted to
problems
involved in
improving
(retrofitting)
the existing
built
environment**

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**This book is
an invaluable
reference and
guiding tool
to practising
civil and
structural
engineers and
architects,
researchers
and
postgraduate**

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**students in
earthquake
engineering
and
engineering
seismology,
local
governments
and risk
management
officials.
About the**

Book: Of late, academicians of technical education have felt the importance of 'Management' and 'Entrepreneurship'. Engineers need to manage their departme

**nts/sections/s
ubordinates,
and Entreprene
urship helps
the large pool
of technical
manpower in
developing
small-scale
industries in
high tech
areas thereby**

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**contributing
to the economy
of the
country. This
book covers
both
'Management'
and 'Entrepren
eurship'. The
first chapters
of this book
deal with**

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**Management,
Planning,
Organizing and
Staffing,
Directing and
Controlling.
The last four
chapters deal
with Entrepren
eurship, Small-
Scale
Industries,**

**Institutional
support and
Project
formulation.
Adequate
number of
simple
examples with
which the
students are
familiar are
included in**

**each chapter.
In addition,
each chapter
contains
student
learning
activities to
give the
readers a
chance to
enhance the
learning**

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process.

**Though the
book is
written
keeping in
mind the
syllabus of
Visvesvaraya
Technological
University,
yet it is
useful for**

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**B.Com, BBM,
DBM, . PGDBM
and MBA**

students also.

Contents:

Management

Planning

Organizing and

Staffing

Directing and

Controlling En

trepreneurship

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**Small-Scale
Industries
Institutional
Support
Preparation of
Project.
Fundamentals
of
Sustainability
in Civil
Engineering
Theory and**

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Practice

Railway

Engineering

Data

Structures and

Algorithms in

Java

Engineering

Metrology and

Measurements

Environmental

engineers continue to

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rely on the leading resource in the field on the principles and practice of water resources engineering. The second edition now provides them with the most up-to-date information along with a remarkable range and depth of coverage. Two new chapters have been added that explore

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water resources sustainability and water resources management for sustainability. New and updated graphics have also been integrated throughout the chapters to reinforce important concepts. Additional end-of-chapter questions have been added as well to build

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understanding.

Environmental engineers will refer to this text throughout their careers.

Instant Access to Civil Engineering Formulas Fully updated and packed with more than 500 new formulas, this book offers a single compilation of all essential civil engineering formulas

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and equations in one easy-to-use reference. Practical, accurate data is presented in USCS and SI units for maximum convenience. Follow the calculation procedures inside Civil Engineering Formulas, Second Edition, and get precise results with minimum time and effort. Each chapter is

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a quick reference to a well-defined topic, including: Beams and girders Columns Piles and piling Concrete structures Timber engineering Surveying Soils and earthwork Building structures Bridges and suspension cables Highways and roads Hydraulics, dams, and waterworks Power-

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generation wind
turbines Stormwater
Wastewater treatment
Reinforced concrete
Green buildings
Environmental
protection
B.Sc. Practical Physics
Advanced Java is a
textbook specially
designed for
undergraduate and
post graduate students
of Computer Science.

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It focuses on developing the applications both at basic and moderate level. This text book is divided into seven units. The first unit introduces Java network programming. In this unit along with the basic concepts of networking, the programming using

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Sockets, InetAddress, URL and URLConnection class is discussed in a lucid manner. The second unit is based on JDBC programming. In this unit, connecting with the database is discussed with examples and illustrations. Then next two chapters focuses on server side

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programming by means of Servlet programming and JSP. In third unit, the illustration of how to create and execute servlets is given. Then the concept of cookies and session management is discussed. In the next subsequent unit the Java Server Pages - its overview and

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programming is studied. In the last three units the advanced concepts of Java programming such as JSF, Hibernate and Java Web Framework : Spring is discussed. The contents of this textbook is supported with numerous illustrations, examples, program codes, and

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screenshots. With its lucid presentation and inclusion of numerous examples the book will be very useful for the readers.

Machine Drawing
A Text Book of Theory
of Machines
Matrices in
Engineering Problems

Automotive Electrical
and Electronics

**TCRP report
155 provides
guidelines and
descriptions for
the design of
various
common types
of light rail
transit (LRT)
track. The track
structure types
include
ballasted track,**

**direct fixation
("ballastless")
track, and
embedded
track. The
report
considers the
characteristics
and interfaces
of vehicle
wheels and rail,
tracks and
wheel gauges,**

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**rail sections,
alignments,
speeds, and
track moduli.**

**The report
includes
chapters on
vehicles,
alignment,
track
structures,
track
components,**

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**special track
work, aerial str
uctures/bridges
, corrosion
control, noise
and vibration,
signals, traction
power, and the
integration of
LRT track into
urban streets.
Note: This is
the 3rd edition.**

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**If you need the
2nd edition for
a course you
are taking, it
can be found as
a "other
format" on
amazon, or by
searching its
isbn:**

1534970746

**This gentle
introduction to**

**discrete
mathematics is
written for first
and second year
math majors,
especially those
who intend to
teach. The text
began as a set
of lecture notes
for the discrete
mathematics
course at the**

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**University of
Northern
Colorado. This
course serves
both as an
introduction to
topics in
discrete math
and as the
"introduction to
proof" course
for math
majors. The**

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course is usually taught with a large amount of student inquiry, and this text is written to help facilitate this. Four main topics are covered: counting, sequences,

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logic, and graph theory. Along the way proofs are introduced, including proofs by contradiction, proofs by induction, and combinatorial proofs. The book contains over 470

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**exercises,
including 275
with solutions
and over 100
with hints.**

**There are also
Investigate!
activities
throughout the
text to support
active, inquiry
based learning.
While there are**

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**many fine
discrete math
textbooks
available, this
text has the
following
advantages: It
is written to be
used in an
inquiry rich
course. It is
written to be
used in a course**

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**for future math
teachers. It is
open source,
with low cost
print editions
and free
electronic
editions. This
third edition
brings
improved
exposition, a
new section on**

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**trees, and a
bunch of new
and improved
exercises. For a
complete list of
changes, and to
view the free
electronic
version of the
text, visit the
book's website
at [discrete.open
mathbooks.org](http://discrete.openmathbooks.org)**

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Introduction *
Constructional
Details - I *
Constructional
Details - II *
Engine Service
*** Cooling**
System *
Lubrication and
Lubricants *
Fuel and
Combustion *
Petrol Engine

**Fuel Supply
Systems ***
**Diesel Engine
Fuel Supply
Systems ***
**Engine
Performance ***
**Testing of
Automobile
Engines ***
**Conventional
Ignition
Systems ***

**Electronic
Ignition
Systems *
Storage
Batteries *
Charging
System *
Starting System
* Emission
Control *
Automotive
Engine
Specifications ***

Appendix *

Index.

This book is intended as an undergraduate text introducing matrix methods as they relate to engineering problems. It begins with the fundamentals of mathematics of

**matrices and
determinants.**

**Matrix
inversion is
discussed, with
an introduction
of the well
known
reduction
methods.**

**Equation sets
are viewed as
vector transfor**

**mations, and
the conditions
of their
solvability are
explored.
Orthogonal
matrices are
introduced with
examples
showing
application to
many problems
requiring three**

**dimensional
thinking. The
angular velocity
matrix is shown
to emerge from
the
differentiation
of the 3-D
orthogonal
matrix, leading
to the
discussion of
particle and**

**rigid body
dynamics. The
book continues
with the
eigenvalue
problem and its
application to
multi-variable
vibrations.
Because the
eigenvalue
problem
requires some**

operations with polynomials, a separate discussion of these is given in an appendix. The example of the vibrating string is given with a comparison of the matrix analysis to the

**continuous
solution. Table
of Contents:
Matrix
Fundamentals /
Determinants /
Matrix
Inversion /
Linear
Simultaneous
Equation Sets /
Orthogonal
Transforms /**

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Matrix

Eigenvalue

Analysis /

Matrix Analysis

of Vibrating

Systems

Introduction to

Machine Design

Irrigation and

Water

Resources

Engineering

Workshop

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Practice

Manual

**A Textbook of
Machine Design
The Art and
Science of Deci
sion-making**

Worksheets are included to act as observation book for taking readings. Tips on practical application of the

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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
Aim is to provide a
broad understanding

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of the many systems and component parts that constitute the vehicle electrical and 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

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components and systems with unique 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.

This collection of over 200 detailed worked exercises adds to and complements the textbook "Fluid Mechanics" by the same author, and, at the same time, illustrates the teaching material via examples. The

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exercises revolve around applying the fundamental concepts of "Fluid Mechanics" to obtain solutions to diverse concrete problems, and, in so doing, the students' skill in the mathematical modelling of practical problems is developed. In addition, 30

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challenging questions WITHOUT detailed solutions have been included. While lecturers will find these questions suitable for examinations and tests, students themselves can use them to check their understanding of the subject.

This book shows a

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vision of the present and future of Industry 4.0 and identifies and examines the most pressing research issue in Industry 4.0. Containing the contributions of leading researchers and academics, this book includes recent publications in key areas of interest, for example: a review on

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the Industry 4.0: What is the Industry 4.0, the pillars of Industry 4.0, current and future trends, technologies, taxonomy, and some case studies (A.U.T.O 4.0, stabilization of digitized process).

This book also provides an essential tool in the process of migration to Industry 4.0. The book is

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suitable as a text for graduate students and professionals in the industrial sector and general engineering areas.

The book is organized into two sections: 1.

Reviews 2. Case

Studies Industry 4.0 is

likely to play an

important role in the

future society. This

book is a good

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reference on Industry 4.0 and includes some case studies. Each chapter is written by expert researchers in the sector, and the topics are broad; from the concept or definition of Industry 4.0 to a future society 5.0. Lessons in Electric Circuits: An Encyclopedic Text &

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Reference Guide (6
Volumes Set)

A Text Book of
Engineering Drawing
Power System
Protection and
Switchgear

INDUSTRIAL
ENGINEERING AND
QUALITY CONTROL

Course Code 22657

Automobile

Engineering, Vol li,(
Automobile Engines,

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Including Electrical
Equipment)

**A superior primer on
software testing and
quality assurance,
from integration to
execution and
automation This
important new work
fills the pressing
need for a user-
friendly text that
aims to provide**

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**software engineers,
software quality
professionals,
software developers,
and students with
the fundamental
developments in
testing theory and
common testing
practices. Software
Testing and Quality
Assurance: Theory
and Practice equips**

**readers with a solid
understanding of:
Practices that
support the
production of quality
software Software
testing techniques
Life-cycle models for
requirements,
defects, test cases,
and test results
Process models for
units, integration,**

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**system, and
acceptance testing
How to build test
teams, including
recruiting and
retaining test
engineers Quality
Models, Capability
Maturity Model,
Testing Maturity
Model, and Test
Process
Improvement Model**

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Expertly balancing theory with practice, and complemented with an abundance of pedagogical tools, including test questions, examples, teaching suggestions, and chapter summaries, this book is a valuable, self-contained tool for professionals and an

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**ideal introductory
text for courses in
software testing,
quality assurance,
and software
engineering.**

**This textbook will
help you learn all the
skills you need to
pass all Vehicle
Electrical and
Electronic Systems
courses and**

qualifications. As electrical and electronic systems become increasingly more complex and fundamental to the workings of modern vehicles, understanding these systems is essential for automotive technicians. For students new to the

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subject, this book will help to develop this knowledge, but will also assist experienced technicians in keeping up with recent technological advances. This new edition includes information on developments in pass-through technology,

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multiplexing, and engine control systems. In full colour and covering the latest course specifications, this is the guide that no student enrolled on an automotive maintenance and repair course should be without. Designed to make learning

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easier, this book

contains:

**Photographs, flow
charts, quick**

reference tables,

overview

**descriptions and step-
by-step instructions.**

**Case studies to help
you put the**

**principles covered
into a real-life**

context. Useful

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**margin features
throughout,
including
definitions, key facts
and ‘safety first’
considerations.**

**A Fully Updated,
Practical Guide to
Automated Process
Control and
Measurement
Systems This
thoroughly revised**

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**guide offers students
a solid grounding in
process control
principles along with
real-world
applications and
insights from the
factory floor.**

**Written by an
experienced
engineering
educator,**

Fundamentals of

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Industrial

**Instrumentation and
Process Control,
Second Edition is
written in a clear,
logically organized
manner. The book
features realistic
problems, real-world
examples, and
detailed illustrations.
You'll get clear
explanations of**

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**digital and analog
components,
including
pneumatics,
actuators, and
regulators, and
comprehensive
discussions on the
entire range of
industrial processes.
Fundamentals of
Industrial
Instrumentation and**

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**Process Control,
Second Edition cover
s:•Pressure•Level•F
low•Temperature
and heat•Humidity,
density, viscosity, &
pH•Position, motion,
and force•Safety and
alarm•Electrical
instruments and con
ditioning•Regulators
, valves, and
actuators•Process co**

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**ntrol•Documentation
n and symbol
standards•Signal
transmission•Logic
gates•Programmable
Logic
controllers•Motor
control•And much
more**

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has been specially
designed for
undergraduate**

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**students of civil
engineering. From
fundamental topics
to modern
technological
developments, the
book covers all
aspects of the
railways including
various
modernization plans
covering tracks,
locomotives, and**

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rolling stock.

**Important statistical
data about the
Indian Railways and
other useful
information have
also been
incorporated to
make the coverage
comprehensive. A
number of
illustrative examples
supplement text to**

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aid easy

**understanding of
design methods
discussed. The book
should also serve the
need of students of
polytechnics and
those appearing of
the AMIE
examination and
would also be a
ready reference for
railway**

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professionals.

**Android App
Development in
Android Studio
AUTOMOBILE
ENGINEERING
Fundamentals of
Electrical
Engineering
Industry 4.0
TRAFFIC
ENGINEERING
*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 and joy. These

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

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***the study
gained more
momentum,
which led Two
and Three
Wheeler
Technology to
emerge as a
new discipline
of automobile
engineering.
The book***

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***explains
traditional and
modern
technologies
in an easy to
understand
manner.
Various
technologies
have been
explicated
with***

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***appropriate
2D and 3D
diagrams to
support
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
technology
systematically
. Although the
emphasis has
been given to
the two***

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**wheeler
technology,
considering
the
requirement of
various
syllabi, the
last chapter is
solely
dedicated to
three wheeler
technology.**

**Chapter-end
review
questions help
students in
preparing
them for
examination
by self-
assessment
method.
Primarily
designed for**

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

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***commoner,
who 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***

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***maintaining
his vehicle at
best
efficiency.
About the
Book: Written
by three
distinguished
authors with
ample
academic and
teaching***

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***experience,
this textbook,
meant for
diploma and
degree
students of
Mechanical
Engineering as
well as those
preparing for
AMIE
examination,***

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incorporates

the latest st

This book

covers Android

app design

fundamentals

in Android

Studio using

Java

programming

language. The

author

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***assumes you
have no
experience in
app
development.
The book
starts with the
installation of
the required
development
environment
and setting up***

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the emulators.

Then, the

simplest

"Hello World"

app is

developed

step by step.

In the next

chapter,

basics of the

Java

programming

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***language are
given with
practical
examples.
Screenshots
and code
snippets are
clearly given
in the book to
guide the
reader. After
the Java***

lecture, 6

complete

***Android apps
are developed
again by step
by step instruc
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***of the example
apps, he/she
will learn
designing user
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connecting
interface
objects to
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code and***

**testing the
app on
emulators and
real devices.
The sample
apps
developed in
this book are
as follows: 1.
Headlight app:
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***development
and use
buttons in
your code. 2.
Body mass
index (BMI)
calculator app:
Using input
boxes,
performing
calculations
and displaying***

***the results on
the screen. 3.
Simple dice
roller app:
Using random
number
generator
functions,
including
images in your
project,
displaying***

***images on the
screen and
changing the
displayed
image progra
mmatically. 4.
The compass
app: Accessing
the magnetic
field sensor,
setting
required***

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***permissions,
extracting the
direction
angle and
animating a
compass
figure. 5.
Show my
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Creating a
map project,
setting***

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required

**permissions,
accessing GPS
device and
showing real
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on the map. 6.
S.O.S. sender
app: Adding
SMS
functionality,
setting**

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**required
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and sending
real time
location using
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and 114 code
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java.website.

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