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2013 Question Papers

# **Msbte Summer 2013 Question Papers**

This Book Presents A Systematic  
Account Of The Concepts And  
Principles Of Engineering  
Thermodynamics And The Concepts

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And Practices Of Thermal Engineering. The Book Covers Basic Course Of Engineering Thermodynamics And Also Deals With The Advanced Course Of Thermal Engineering. This Book Will Meet The Requirements Of The Undergraduate Students Of Engineering And

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Technology Undertaking The  
Compulsory Course Of Engineering  
Thermodynamics. The Subject Matter  
Of Book Is Sufficient For The Students  
Of Mechanical Engineering/Industrial-  
Production Engineering, Aeronautical  
Engineering, Undertaking Advanced  
Courses In The Name Of Thermal

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Engineering/Heat Engineering/ Applied Thermodynamics Etc. Presentation Of The Subject Matter Has Been Made In Very Simple And Understandable Language. The Book Is Written In Si System Of Units And Each Chapter Has Been Provided With Sufficient Number Of Typical Numerical

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Problems Of Solved And Unsolved  
Questions With Answers.

Advanced Java is a textbook specially designed for undergraduate and post graduate students of Computer Science. It focuses on developing the applications both at basic and moderate level. This text book is

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divided into seven units. The first unit introduces Java network programming. In this unit along with the basic concepts of networking, the programming using Sockets, InetAddress, URL and URLConnection class is discussed in a lucid manner. The second unit is based on JDBC

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programming. In this unit, connecting with the database is discussed with examples and illustrations. Then next two chapters focuses on server side programming by means of Servlet programming and JSP. In third unit, the illustration of how to create and execute servlets is given. Then the

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concept of cookies and session management is discussed. In the next subsequent unit the Java Server Pages - its overview and programming is studied. In the last three units the advanced concepts of Java programming such as JSF, Hibernate and Java Web Framework : Spring is



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discussed. The contents of this textbook is supported with numerous illustrations, examples, program codes, and screenshots. With its lucid presentation and inclusion of numerous examples the book will be very useful for the readers.

"This second edition maintains the

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book's basis on fundamentals, whilst including experience gained from the rapid growth of renewable energy technologies as secure national resources and for climate change mitigation, more extensively illustrated with case studies and worked problems. The presentation has been

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improved throughout, along with a new chapter on economics and institutional factors. Each chapter begins with fundamental theory from a scientific perspective, then considers applied engineering examples and developments, and includes a set of problems and solutions and a

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bibliography of printed and web-based material for further study. Common symbols and cross referencing apply throughout, essential data are tabulated in appendices. Sections on social and environmental aspects have been added to each technology chapter." -- back cover.

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I feel elevated in presenting the New edition of this standard treatise. The favourable reception, which the previous edition and reprints of this book have enjoyed, is a matter of great satisfaction for me. I wish to express my sincere thanks to numerous professors and students for their

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valuable suggestions and recommending the patronise this standard treatise in the future also.

Advanced Java

Applied Circuit Theory

Railway Engineering

Overcoming Barriers to Electric-Vehicle Deployment

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1st International Congress Munich,  
1970

Any good text book, particularly that in the fast changing fields such as engineering & technology, is not only expected to cater to the current curricular requirements of various institutions but also should provide a

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glimpse towards the latest developments in the concerned subject and the relevant disciplines. It should guide the periodic review and updating of the curriculum.

Drug Store and Business  
Management CBS Confident Pharmacy  
I-Dispensing Pharmacy - II-Dispensed



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Medications - a-Monophasic Liquid  
Dosage Forms - b-Biphasic Liquid  
Dosage Forms - c- Semi-solid Dosage  
Forms - III - Sterile Dosage Forms  
This book reviews the current state of  
all types of electromagnetic testing  
techniques and considers the  
implications of innovations for future

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inspection practice both in Europe and Japan. This volume provides researchers with an overview of exchanges on the subjects of ACPD and ACFM from both Japanese and continental perspectives. For instance: the Japanese project of applied electromagnetic theory to inspect

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nuclear power plants and the theory of signal inversion for flaw identification.

Topics covered are: - Inversion, imaging and flaw reconstruction - Advanced signal processing - Artificial intelligence and neural networks - Modelling, simulation and benchmark problems - Reliability of inspections,

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new techniques and novel sensors -  
Automation of data acquisition and  
processing The work covers a wide  
range of disciplines and will therefore  
serve a large number of researchers of  
electromagnetic theory for the next  
millenium.

Electrical Engineering Manual

*Page 20/180*

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ELECTRONICS LAB MANUAL  
(VOLUME 2)

Basics of Environmental Science

Pharmacognosy and Phytochemistry

An Open Introduction

**Become a Linux Superstar!**

**What if you could learn about**

**Linux in a simple, easy to**

*Page 21/180*

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**follow format? Can you  
imagine the doors that will be  
open to you once you gain  
that knowledge? Tracing its  
roots back to the mid 90's,  
Linux came to life and has  
become existent in almost  
every gadget you see around**

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**your home. Linux has unique technical aspects, which makes it distinct from other operating systems out there. To take advantage of its specialties, one must know how to operate it, and this book is made just for that**

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**purpose! In fact, all Quick Start Guide books are aimed to get you the knowledge you need in an easy to learn and easy to apply method. Our philosophy is we work hard so you don't have to! Linux Beginner's Crash Course is**



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**your user manual to  
understanding how it works,  
and how you can perfectly  
manipulate the command line  
with ease and confidence.  
So...Why Be Interested in  
Linux? -Cost: It's free and  
readily available -Freedom:**

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**Take full control of your  
desktop and kernel  
-Flexibility: Strong structural  
components that allows you to  
customize your computer  
however you want it. What  
Will You Learn in this Book?  
1. Linux Overview 2.**

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**Components of Linux 3. The  
Linux Kernel 4. Linux  
Processes 5. Linux File  
Systems 6. Linux Processes 7.  
Linux Processes This tutorial  
is going to help you master  
the use of LINUX and make  
you even more computer**

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**literate. Everything takes time and learning, and with this book, you are one step away to becoming a pro! Read this book now to quickly learn Linux and open yourself up to a whole new world of possibilities! □ Pick up your**

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**copy today. See you on the  
inside so we can get to work!  
Special Features: • Simple  
language, point-wise  
descriptions in easy steps. •  
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agreement with sequence of  
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**diagrams.· Concepts supported by ample number of solved examples and illustrations.· Pedagogy in tune with examination pattern of RGTU.· Large number of Practice problems.· Model Question Papers About The**

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**Book: This book is designed to suit the core engineering course on basic mechanical engineering offered to first year students of all engineering colleges in Madhya Pradesh. This book meets the syllabus**

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**requirements of Basic  
Mechanical Engineering and  
has been written for the first  
year students (all branches) of  
BE Degree course of RGPV  
Bhopal affiliated Engineering  
Institutes. A number of  
illustrations have been used**



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**to explain and clarify the subject matter. Numerous solved examples are presented to make understanding the content of the book easy. Objective type questions have been provided at the end of each chapter to help the**

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**students to quickly review the concepts.**

**The chemical aspects of materials processing used for electronic applications, e.g. Si, III-V compounds, superconductors, metallization materials, are**

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**covered in this volume.  
Significant recent advances  
have occurred in the  
development of new volatile  
precursors for the fabrication  
of III-V semiconductor and  
metal [Cu, W] films by  
OMCVD. Some fundamentally**

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**new and wide-ranging applications have been introduced in recent times. Experimental and modeling studies regarding deposition kinetics, operating conditions and transport as well as properties of films produced**

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**by PVD, CVD and PECVD are discussed. The thirty papers in this volume report on many other significant topics also. Research workers involved in these aspects of materials technology may find here some new perspectives with**

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**which to augment their  
projects.**

**Foreword by Dr. Asad Madni,  
C. Eng., Fellow IEEE, Fellow  
IEE Learn the fundamentals  
of RF and microwave  
electronics visually, using  
many thoroughly tested,**

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**practical examples RF and microwave technology are essential throughout industry and to a world of new applications-in wireless communications, in Direct Broadcast TV, in Global Positioning System (GPS), in**

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**key measurement, electronic,  
and design principle you need  
to be effective. Dr. Matthew  
Radmanesh uses easy  
mathematics and a highly  
graphical approach with  
scores of examples to bring  
about a total comprehension**

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**of the subject. Along the way, he clearly introduces everything from wave propagation to impedance matching in transmission line circuits, microwave linear amplifiers to hard-core nonlinear active circuit design**

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**in Microwave Integrated  
Circuits (MICs). Coverage  
includes: A scientific  
framework for learning RF  
and microwaves easily and  
effectively Fundamental RF  
and microwave concepts and  
their applications The**

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**characterization of two-port networks at RF and microwaves using S-parameters Use of the Smith Chart to simplify analysis of complex design problems Key design considerations for microwave amplifiers:**

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**stability, gain, and noise  
Workable considerations in  
the design of practical active  
circuits: amplifiers,  
oscillators, frequency  
converters, control circuits RF  
and Microwave Integrated  
Circuits (MICs) Novel use of**

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**"live math" in circuit analysis and design Dr. Radmanesh has drawn upon his many years of practical experience in the microwave industry and educational arena to introduce an exceptionally wide range of practical**

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**concepts and design  
methodology and techniques  
in the most comprehensible  
fashion. Applications include  
small-signal, narrow-band,  
low noise, broadband and  
multistage transistor  
amplifiers; large signal/high**

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**power amplifiers; microwave transistor oscillators, negative-resistance circuits, microwave mixers, rectifiers and detectors, switches, phase shifters and attenuators. The book is intended to provide a workable knowledge and**



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**intuitive understanding of RF  
and microwave electronic  
circuit design. Radio  
Frequency and Microwave  
Electronics Illustrated  
includes a comprehensive  
glossary, plus appendices  
covering key symbols, physical**

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**constants, mathematical identities/formulas, classical laws of electricity and magnetism, Computer-Aided-Design (CAD) examples and more. About the Web Site The accompanying web site has an "E-Book" containing actual**

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**design examples and methodology from the text, in Microsoft Excel environment, where files can easily be manipulated with fresh data for a new design.**

**Linux for Beginner's Guide to Linux Command Line, Linux**

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**System & Linux Commands  
Applied Thermodynamics  
Selected Papers from the  
2011 International  
Conference on Chemical  
Engineering and Advanced  
Materials (CEAM 2011) 28-30  
May, 2011, Changsha, China**

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**Drug Store and Business  
Management**

**MAINTENANCE OF  
ELECTRICAL EQUIPMENTS  
(22625)**

*This book consists of select  
proceedings of the International  
Conference on Emerging Trends*

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***in Mechanical and Industrial Engineering (ICETMIE) 2019. It covers current trends in thermal, design, industrial, production and other sub-disciplines of mechanical engineering. This volume focuses on different***

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***areas of design engineering  
including computational  
mechanics, computational fluid  
dynamics, finite elements in  
modelling, simulation, analysis  
and design, kinematics and  
dynamics of rigid bodies, micro-***

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***and nano-mechanics, solid mechanics and structural mechanics, vibration and acoustics, applied mechanics, and biomechanics. It also covers various topics from thermal engineering including***



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***refrigeration plants, heat exchangers, heat pumps and heat pipes, combined heat and power and advanced alternative cycles, polygeneration, combustion processes, heat transfer, solar cells, solar***

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***thermal power plants, and the integration of renewable energy with conventional processes. This book will be useful for students, researchers as well as professionals working in the area of mechanical engineering,***

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***especially thermal engineering  
and engineering design and  
other allied areas.***

***In znodern pharznacognosy  
chemical and physical-cheznical  
methods are being used znore  
and more for the investigation of***

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***medicinal plants. This important fact and the increasing involvement of chemistry, biochemistry and botany in pharmaceutical, medicinal and general biological questions usher in a new epoch in the***

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***disco very of medicinal substances and the development of drugs derived from the plant kingdom. One of the guiding ideas of the first ""Syznposiuzn on Pharznacognosy and Phytocheznistry"" was to***

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***promote these developments, to provide an additional stimulus and to establish.***

***Environmental engineers continue to rely on the leading resource in the field on the principles and practice of water***

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***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***



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***end-of-chapter questions have been added as well to build understanding. Environmental engineers will refer to this text throughout their careers. This book is evolved from the experience of the author who***

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***taught all lab courses in his three decades of teaching in various universities in India. The objective of this lab manual is to provide information to undergraduate students to practice experiments in***

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***electronics laboratories. This book covers 118 experiments for linear/analog integrated circuits lab, communication engineering lab, power electronics lab, microwave lab and optical communication lab. The***

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***experiments described in this book enable the students to learn: • Various analog integrated circuits and their functions • Analog and digital communication techniques • Power electronics circuits and***

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***their functions • Microwave  
equipment and components •  
Optical communication devices  
This book is intended for the  
B.Tech students of Electronics  
and Communication  
Engineering, Electrical and***

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***Electronics Engineering,  
Biomedical Electronics,  
Instrumentation and Control,  
Computer Science, and Applied  
Electronics. It is designed not  
only for engineering students,  
but can also be used by BSc/MSc***

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***(Physics) and Diploma students.  
KEY FEATURES • Contains aim,  
components and equipment  
required, theory, circuit diagram,  
pin-outs of active devices,  
design, tables, graphs, alternate  
circuits, and troubleshooting***

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***techniques for each experiment •  
Includes viva voce and  
examination questions with their  
answers • Provides exposure on  
various devices TARGET  
AUDIENCE • B.Tech (Electronics  
and Communication***



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***Engineering, Electrical and  
Electronics Engineering,  
Biomedical Electronics,  
Instrumentation and Control,  
Computer Science, and Applied  
Electronics) • BSc/MSc (Physics)  
• Diploma (Engineering)***

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Tunnel Operations, Maintenance,  
Inspection, and Evaluation  
(TOMIE) Manual  
Software Testing and Quality  
Assurance  
Radio Frequency and Microwave***

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## ***Electronics Illustrated Nondestructive Testing of Materials***

This Book Develops Compares  
And Illustrates All The More  
Important Methods Of Circuit  
Analysis, Developed For Use  
Directly By Computer. It Is

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The Only Known Text To  
Intermediate Between Basic  
Circuit Theory And Computer-  
Aided Design, And With A  
Clarity, Which Render The  
Text Easily Understandable  
By Engineers And Students  
Alike. Steering A Middle

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Course Between Fundamental  
And Advanced Theory, The  
Subject Is Treated In  
Sufficient Depth To Allow  
General Application To  
Active Circuits Throughout,  
Thereby Offering Engineers A  
Critical Approach To Circuit

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**Analysis. In Setting Out  
Five Major Computer Programs  
In The Form Of Useful Design  
Tools, The Author Places His  
Emphasis On Analysis  
Technique And Application.  
The Programs, Written In  
Basic And Described In**

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Relation To Theory So That  
They Can Be Understood,  
Modified And Easily  
Transferred To Other  
Computer Systems; Cover All  
The Main Analysis  
Requirements. The Circuit  
Theory On Which The Five

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Programs Are Based Is Also Utilized In Extended Form By Many Other Large Circuit Analysis Programs Readily Available At Computer Centres, Allowing Designers To Make Full Use Of Such Programs Without Reference



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To Specialized Cad Texts.  
Features Include: A Much-  
Improved Presentation Of Two-  
Port Analysis Through The  
Use Of Wiring Operators, And  
Discussion On The Growing  
Use Of Computer Programs For  
Transfer Function Analysis

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Both In The S-Domain And  
Symbolically. There Is A  
Careful And Lucid Treatment  
Of Sensitivity Analysis, And  
An Important Chapter On  
Tolerance Analysis,  
Including Integrated Circuit  
Tolerances.

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The electric vehicle offers many promises—increasing U.S. energy security by reducing petroleum dependence, contributing to climate-change initiatives by decreasing greenhouse gas (GHG) emissions, stimulating

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long-term economic growth through the development of new technologies and industries, and improving public health by improving local air quality. There are, however, substantial technical, social, and

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economic barriers to widespread adoption of electric vehicles, including vehicle cost, small driving range, long charging times, and the need for a charging infrastructure. In addition, people are unfamiliar with

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electric vehicles, are uncertain about their costs and benefits, and have diverse needs that current electric vehicles might not meet. Although a person might derive some personal benefits from ownership, the

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costs of achieving the social benefits, such as reduced GHG emissions, are borne largely by the people who purchase the vehicles. Given the recognized barriers to electric-vehicle adoption, Congress asked the

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Department of Energy (DOE)  
to commission a study by the  
National Academies to  
address market barriers that  
are slowing the purchase of  
electric vehicles and  
hindering the deployment of  
supporting infrastructure.



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As a result of the request, the National Research Council (NRC)—a part of the National Academies—appointed the Committee on Overcoming Barriers to Electric-Vehicle Deployment. This committee documented their findings in

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two reports—a short interim report focused on near-term options, and a final comprehensive report.

Overcoming Barriers to Electric-Vehicle Deployment fulfills the request for the short interim report that

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addresses specifically the following issues:  
infrastructure needs for electric vehicles, barriers to deploying the infrastructure, and possible roles of the federal government in overcoming the

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barriers. This report also includes an initial discussion of the pros and cons of the possible roles. This interim report does not address the committee's full statement of task and does not offer any

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recommendations because the committee is still in its early stages of data-gathering. The committee will continue to gather and review information and conduct analyses through late spring 2014 and will

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issue its final report in late summer 2014. Overcoming Barriers to Electric-Vehicle Deployment focuses on the light-duty vehicle sector in the United States and restricts its discussion of electric vehicles to plug-in

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electric vehicles (PEVs), which include battery electric vehicles (BEVs) and plug-in hybrid electric vehicles (PHEVs). The common feature of these vehicles is that their batteries are charged by being plugged

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into the electric grid. BEVs differ from PHEVs because they operate solely on electricity stored in a battery (that is, there is no other power source); PHEVs have internal combustion engines that can



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supplement the electric power train. Although this report considers PEVs generally, the committee recognizes that there are fundamental differences between PHEVs and BEVs. About the Book: Of late,

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academicians of technical education have felt the importance of 'Management' and 'Entrepreneurship'. Engineers need to manage their departments/sections/subordinates, and Entrepreneurship helps the

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large pool of technical manpower in developing small-scale industries in high tech areas thereby contributing to the economy of the country. This book covers both 'Management' and 'Entrepreneurship'. The

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first chapters of this book deal with Management, Planning, Organizing and Staffing, Directing and Controlling. The last four chapters deal with Entrepreneurship, Small-Scale Industries,

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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

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activities to give the readers a chance to enhance the learning process. Though the book is written keeping in mind the syllabus of Visvesvaraya Technological University, yet it is useful for B.Com, BBM, DBM, . PGDBM

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and MBA students also.

Contents: Management  
Planning Organizing and  
Staffing Directing and  
Controlling Entrepreneurship  
Small-Scale Industries  
Institutional Support  
Preparation of Project.

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Railway Engineering has been specially designed for undergraduate students of civil engineering. From fundamental topics to modern technological developments, the book covers all aspects of the railways including



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various modernization plans covering tracks, locomotives, and rolling stock. Important statistical data about the Indian Railways and other useful information have also been incorporated to make the

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coverage comprehensive. A number of illustrative examples supplement text to aid easy understanding of design methods discussed. The book should also serve the need of students of polytechnics and those

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appearing of the AMIE  
examination and would also  
be a ready reference for  
railway professionals.

Introduction to Radar Using  
Python and MATLAB  
Management and  
Entrepreneurship

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Transmission and  
Distribution**

**Human Anatomy And Physiology  
Chemistry for Electronic  
Materials**

**A Fully Updated, Practical Guide**

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

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**Written by an experienced  
engineering educator,  
Fundamentals of Industrial  
Instrumentation and Process  
Control, Second Edition is written  
in a clear, logically organized  
manner. The book features**

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**realistic problems, real-world examples, and detailed illustrations. You'll get clear explanations of digital and analog components, including pneumatics, actuators, and regulators, and comprehensive**

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**discussions on the entire range of  
industrial processes.**

**Fundamentals of Industrial  
Instrumentation and Process  
Control, Second Edition covers:•P  
ressure•Level•Flow•Temperature  
and heat•Humidity, density,**



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**viscosity, & pH•Position, motion,  
and force•Safety and  
alarm•Electrical instruments and  
conditioning•Regulators, valves,  
and actuators•Process  
control•Documentation and  
symbol standards•Signal**

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**transmission•Logic  
gates•Programmable Logic  
controllers•Motor control•And  
much more**

**The new edition of this popular  
student text offers an engaging  
introduction to environmental**

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**study. It covers the entire breadth of the environmental sciences, providing concise, non-technical explanations of physical processes and systems and the effects of human activities. In this second edition the scientific background**

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**to major environmental issues is clearly explained. These include: \* global warming \* genetically modified foods \* desertification \* acid rain \* deforestation \* human population growth \* depleting resources \* nuclear power**

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**generation \* descriptions of the 10 major biomes. Special student text features include illustrations and explanatory diagrams, boxed case studies, concepts and definitions.**

**The Importance Of**

*Page 117/180*

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**Environmental Studies Cannot Be  
Disputed Since The Need For  
Sustainable Development Is A  
Key To The Future Of Mankind.  
Recognising This, The  
Honourable Supreme Court Of  
India Directed The Ugc To**

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**Introduce A Basic Course On  
Environmental Education For  
Undergraduate Courses In All  
Disciplines, To Be Implemented  
By Every University In The  
Country. Accordingly, The Ugc  
Constituted An Expert Committee**

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**To Formulate A Six-Month Core  
Module Syllabus For  
Environmental Studies. This  
Textbook Is The Outcome Of The  
Ugc S Efforts And Has Been  
Prepared As Per The Syllabus. It  
Is Designed To Bring About An**



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**Awareness On A Variety Of  
Environmental Concerns. It  
Attempts To Create A Pro-  
Environmental Attitude And A  
Behavioural Pattern In Society  
That Is Based On Creating  
Sustainable Lifestyles And A New**

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**Ethic Towards Conservation. This Textbook Stresses On A Balanced View Of Issues That Affect Our Daily Lives. These Issues Are Related To The Conflict Between Existing `Development Strategies And The Need For `Conservation .**

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**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. Based On A  
Multidisciplinary Approach That**

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**Brings About An Appreciation Of  
The Natural World And Human  
Impact On Its Integrity, This  
Textbook Seeks Practical Answers  
To Make Human Civilization  
Sustainable On The Earth S  
Finite Resources. Attractively**

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**Priced At Rupees One Hundred  
And Fifteen Only, This Textbook  
Covers The Syllabus As  
Structured By The Ugc, Divided  
Into 8 Units And 50 Lectures. The  
First 7 Units, Which Cover 45  
Lectures Are Classroom Teaching-**

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**Based, And Enhance Knowledge  
Skills And Attitude To  
Environment. Unit 8 Is Based On  
Field Activities To Be Covered In  
5 Lecture Hours And Would  
Provide Students With First Hand  
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## **Environmental Issues.**

**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 design and**

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**operation of various hydraulic machines such as pumps and turbines. The book also features numerous solved examples in order to help students grasp the fundamentals and apply them to real-life situations. Beginning**



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**with discussion of the properties of fluids, Fluid Mechanics and Machinery gives detailed information on topics such as fluid pressure and its measurement, principles of buoyancy and flotation, and fluid**

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**statics, kinematics, and dynamics. It then moves on to discuss dimensional analysis and flow of fluids through orifices, mouthpieces, and pipes, and over notches and weirs. More advanced topics such as vortex flow, impact**

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**of jets, 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 as pumps and turbines explains the practical**

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**applications of fluid forces to  
students.**

**ENGINEERING PHYSICS-II  
(BASIC PHYSICS)**

**Pharmaceutical Analysis**

**Discrete Mathematics**

**Emerging Trends in Mechanical**

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## **Engineering**

### **Theory of Structures**

Note: This is the 3rd edition. 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

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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 University of Northern Colorado. This course serves both as an introduction to

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topics in discrete math and as the "introduction to proof" course for math majors. The 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, logic, and graph theory. Along the way proofs are

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introduced, including proofs by contradiction, proofs by induction, and combinatorial proofs. The book contains over 470 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



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there are 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 for future math teachers. It is open source, with low cost print editions and free electronic editions. This third

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edition brings improved exposition, a new section on 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.openmathbooks.org](http://discrete.openmathbooks.org)

The third edition of this popular and

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textbook in drug store and business management includes questions from papers in recent examinations. It has been written to meet the requirements of students working towards a diploma in pharmacy. Written in a easy to understand language, it attempts to demystify and simplify the basic

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concepts in order for students to fully understand the subject and ensure success in their examinations.

Pharmaceutical Biotechnology is a unique compilation of reviews addressing frontiers in biologicals as a rich source for innovative medicines. This book fulfills the needs of a broad

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community of scientists interested in biologicals from diverse perspectives—basic research, biotechnology, protein engineering, protein delivery, medicines, pharmaceuticals and vaccinology. The diverse topics range from advanced biotechnologies aimed to introduce

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novel, potent engineered vaccines of unprecedented efficacy and safety for a wide scope of human diseases to natural products, small peptides and polypeptides engineered for discrete prophylaxis and therapeutic purposes. Modern biologicals promise to dramatically expand the scope of

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preventive medicine beyond the infectious disease arena into broad applications in immune and cancer treatment, as exemplified by anti-EGFR receptors antibodies for the treatment of breast cancer. The exponential growth in biologicals such as engineered proteins and vaccines

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has been boosted by unprecedented scientific breakthroughs made in the past decades culminating in an in-depth fundamental understanding of the scientific underpinnings of immune mechanisms together with knowledge of protein and peptide scaffolds that can be deliberately manipulated. This



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has in turn led to new strategies and processes. Deciphering the human, mammalian and numerous pathogens' genomes provides opportunities that never before have been available—identification of discrete antigens (genomes and antigenomes) that lend themselves to considerably

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improved antigens and monoclonal antibodies, which with more sophisticated engineered adjuvants and agonists of pattern recognition receptors present in immune cells, deliver unprecedented safety and efficacy. Technological development such a nanobiotechnologies

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(dendrimers, nanobodies and fullerenes), biological particles (viral-like particles and bacterial ghosts) and innovative vectors (replication-competent attenuated, replication-incompetent recombinant and defective helper-dependent vectors) fulfill a broad range of cutting-edge

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research, drug discovery and delivery applications. Most recent examples of breakthrough biologicals include the human papilloma virus vaccine (HPV, prevention of women genital cancer) and the multivalent Pneumococcal vaccines, which has virtually eradicated in some populations a most

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prevalent bacterial ear infection (i.e., otitis media). It is expected that in the years to come similar success will be obtained in the development of vaccines for diseases which still represent major threats for human health, such as AIDS, as well as for the generation of improved vaccines

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against diseases like pandemic flu for which vaccines are currently available. Furthermore, advances in comparative immunology and innate immunity revealed opportunities for innovative strategies for ever smaller biologicals and vaccines derived from species such as llama and sharks, which carry

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tremendous potential for innovative biologicals already in development stages in many pharmaceutical companies. Such recent discoveries and knowledge exploitations hold the promise for breakthrough biologicals, with the coming decade. Finally, this book caters to individuals not directly

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engaged in the pharmaceutical drug discovery process via a chapter outlining discovery, preclinical development, clinical development and translational medicine issues that are critical the drug development process. The authors and editors hope that this compilation of reviews will help



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readers rapidly and completely update knowledge and understanding of the frontiers in pharmaceutical biotechnologies.

This book aims at providing a complete coverage of the needs of First Year students as per S.B.T.E's revised syllabus. The entire revised

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syllabus has been covered keeping in view the non-availability of the complete subject matter through a single source. The difficult articles have been explained in a simple language providing, wherever necessary, neat and well explained diagrams so that even an average

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student may be able to follow it independently. A sufficient number of solved examples and problems with answers and SBTE questions are given at the end of each topic. Formulae specifying symbol meaning are enlisted before solving the examples.

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ENGINEERING PHYSICS-I (BASIC  
PHYSICS)

Pharmaceutics-II

A Text Book of Theory of Machines

Pharmaceutical Biotechnology

Fundamentals of Industrial

Instrumentation and Process Control,  
Second Edition

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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 software engineers, software quality professionals, software developers, and students with the fundamental developments in testing theory

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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 Expertly balancing theory with practice, and complemented with an abundance of pedagogical tools, including test questions,

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examples, teaching suggestions, and chapter summaries, this book is a valuable, self-contained tool for professionals and an ideal introductory text for courses in software testing, quality assurance, and software engineering.

Tunnels represent a significant financial investment with challenging design,



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construction, and operational issues. Tunnels that are not adequately maintained usually require more costly and extensive repairs. To help safeguard tunnel users and to ensure reliable levels of service, the FHWA developed the National Tunnel Inspection Standards (NTIS), the Tunnel Operations Maintenance Inspection and

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Evaluation (TOMIE) Manual, and the Specifications for National Tunnel Inventory (SNTI). In accordance with the NTIS, this Manual describes methods for improving the safety and performance of roadway tunnel operation, maintenance, inspection, and evaluation programs. The use of analytical sciences in the

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discovery, development and manufacture of pharmaceuticals is wide-ranging. From the analysis of minute amounts of complex biological materials to the quality control of the final dosage form, the use of analytical technology covers an immense range of techniques and disciplines. This book concentrates on the analytical aspects of

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drugdevelopment and manufacture, focusing on the analysis of the activeingredient or drug substance. It provides those joining theindustry or other areas of pharmaceutical research with a source ofreference to a broad range of techniques and their applications,allowing them to choose the most appropriate

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analytical technique for a particular purpose. The volume is directed at analytical chemists, industrial pharmacists, organic chemists, pharmaceutical chemists and biochemists.

This book introduces the Special Issue entitled “ Applications of Internet of Things ” , of ISPRS International Journal of

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Geo-Information. Topics covered in this issue include three main parts: (I) intelligent transportation systems (ITSs), (II) location-based services (LBSs), and (III) sensing techniques and applications. Three papers on ITSs are as follows: (1) “ Vehicle positioning and speed estimation based on cellular network signals for urban roads, ”

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by Lai and Kuo; (2) “ A method for traffic congestion clustering judgment based on grey relational analysis, ” by Zhang et al.; and (3) “ Smartphone-based pedestrian ’ s avoidance behavior recognition towards opportunistic road anomaly detection, ” by Ishikawa and Fujinami. Three papers on LBSs are as follows: (1) “ A high-efficiency

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method of mobile positioning based on commercial vehicle operation data, ” by Chen et al.; (2) “ Efficient location privacy-preserving k-anonymity method based on the credible chain, ” by Wang et al.; and (3) “ Proximity-based asynchronous messaging platform for location-based Internet of things service, ” by Gon Jo et al.



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Two papers on sensing techniques and applications are as follows: (1) “ Detection of electronic anklet wearers ’ groupings throughout telematics monitoring, ” by Machado et al.; and (2) “ Camera coverage estimation based on multistage grid subdivision, ” by Wang et al.

Fluid Mechanics and Machinery

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The Scientist and Engineer's Guide to  
Digital Signal Processing

A TEXTBOOK OF ENGINEERING  
CHEMISTRY

Electrical power transmission and  
distribution are an important area of

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electrical engineering. This book on electrical power transmission and distribution takes into account the layout, design and manufacture of components that form an electrical grid. There has been rapid progress in this field and its applications are

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finding their way across multiple industries. Contents included in this book aim to facilitate a comprehensive knowledge in the fields of electrical engineering and efficient electricity generation and consumption. This book is a vital

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tool for all researching or studying electricity transmission as it gives incredible insights into emerging trends and concepts. The readers would gain knowledge that would broaden their perspective about this field.

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This comprehensive resource provides readers with the tools necessary to perform analysis of various waveforms for use in radar systems. It provides information about how to produce synthetic aperture (SAR) images by giving a

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tomographic formulation and implementation for SAR imaging. Tracking filter fundamentals, and each parameter associated with the filter and how each affects tracking performance are also presented. Various radar cross section

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measurement techniques are covered, along with waveform selection analysis through the study of the ambiguity function for each particular waveform from simple linear frequency modulation (LFM) waveforms to more complicated



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coded waveforms. The text includes the Python tool suite, which allows the reader to analyze and predict radar performance for various scenarios and applications. Also provided are MATLAB® scripts corresponding to the Python

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tools. The software includes a user-friendly graphical user interface (GUI) that provides visualizations of the concepts being covered. Users have full access to both the Python and MATLAB source code to modify for their application. With

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examples using the tool suite are given at the end of each chapter, this text gives readers a clear understanding of how important target scattering is in areas of target detection, target tracking, pulse integration, and target

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discrimination.

Interim Report

Basic Mechanical Engineering

Water Resources Engineering

Renewable Energy Resources

Applications of Internet of Things