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*The importance of electric motors is well known in the various engineering fields. The book provides comprehensive coverage of the various types of electric motors including d.c. motors, three phase and single phase induction motors, synchronous motors, universal motor, a.c. servomotor, linear induction motor and stepper motors. The book covers all the details of d.c. motors including torque equation, back e.m.f., characteristics, types of*

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*starters, speed control methods and applications. The book also covers the various testing methods of d.c. motors such as Swinburne's test, brake test, retardation test, field test and Hopkinson's test. The book further explains the three phase induction motors in detail. It includes the production of rotating magnetic field, construction, working, effect of slip, torque equation, torque ratios, torque-slip characteristics, losses, power flow, equivalent circuit, effect of harmonics on the performance, circle diagram and applications. This*

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chapter also includes the discussion of induction generator. The book teaches the various starting methods and speed control methods of three phase induction motors. The book incorporates the explanation of various single phase induction motors. The chapter on synchronous motor provides the detailed discussion of construction, working principle, behavior on load, analysis of phasor diagram, Vee and Inverted Vee curves, hunting, synchronous condenser and applications. The book also teaches the various special machines such as single phase commutator motors,

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*universal motor, a.c.  
servomotor, linear induction  
motor and stepper motors.  
The book uses plain, lucid  
language to explain each  
topic. The book provides the  
logical method of explaining  
the various complicated  
topics and stepwise methods  
to make the understanding  
easy. Each chapter is well  
supported with necessary  
illustrations, self  
explanatory diagrams and  
variety of solved problems.  
The book explains the  
philosophy of the subject  
which makes the  
understanding of the  
concepts very clear and  
makes the subject more  
interesting.*

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*This book is a handy document for the students to get the contents of the syllabus at one place in a compiled manner as per the VTU syllabus.*

*This book contains twenty-eight papers by participants in the NATO Advanced Study Institute (ASI) on "Cognitive and Linguistic Aspects of Geographic Space," held in Las Navas del Marqués, Spain, July 8-20, 1990. The NATO ASI marked a stage in a two-year research project at the U. S. National Center for Geographic Information and Analysis (NCOIA). In 1987, the U. S. National Science Foundation issued a*

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*solicitation for proposals to establish the NCGIA—and one element of that solicitation was a call for research on a "fundamental theory of spatial relations". We felt that such a fundamental theory could be searched for in mathematics (geometry, topology) or in cognitive science, but that a simultaneous search in these two seemingly disparate research areas might produce novel results. Thus, as part of the NCGIA proposal from a consortium consisting of the University of California at Santa Barbara, the State University of New York at Buffalo, and the University*

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*of Maine, we proposed that the second major Research Initiative (two year, multidisciplinary research project) of the NCOIA would address these issues, and would be called "Languages of Spatial Relations" The grant to establish the NCOIA was awarded to our consortium late in 1988. The comprehensive study of electric, magnetic and combined fields is nothing but electromagnetic engineering. Along with electronics, electromagnetics plays an important role in other branches. The book is structured to cover the key aspects of the course*

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*Electromagnetic Field Theory for undergraduate students. The knowledge of vector analysis is the base of electromagnetic engineering. Hence book starts with the discussion of vector analysis. Then it introduces the basic concepts of electrostatics such as Coulomb's law, electric field intensity due to various charge distributions, electric flux, electric flux density, Gauss's law, divergence and divergence theorem. The book continues to explain the concept of elementary work done, conservative property, electric potential and potential difference and the*



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energy in the electrostatic fields. The detailed discussion of current density, continuity equation, boundary conditions and various types of capacitors is also included in the book. The book provides the discussion of Poisson's and Laplace's equations and their use in variety of practical applications. The chapter on magnetostatics incorporates the explanation of Biot-Savart's law, Ampere's circuital law and its applications, concept of curl, Stoke's theorem, scalar and vector magnetic potentials. The book also includes the concept of

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*force on a moving charge, force on differential current element and magnetic boundary conditions. The book covers all the details of Faraday's laws, time varying fields, Maxwell's equations and Poynting theorem. Finally, the book provides the detailed study of uniform plane waves including their propagation in free space, perfect dielectrics, lossy dielectrics and good conductors. The book uses plain, lucid language to explain each topic. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the*

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*understanding easy. The variety of solved examples is the feature of this book which helps to inculcate the knowledge of the electromagnetics in the students. Each chapter is well supported with necessary illustrations and self-explanatory diagrams. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.*

*National conference on  
Applied Science and  
Humanities*

*Fluid Mechanics*

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*Foundations of Software  
Testing: For VTU  
Computer Organization*

This book is designed for undergraduate students of all branches, and those who study Control Systems Engineering as one of the subjects in their curriculum. It is also a reference book for PG students. The contents of the book are presented in lucid style so that even an average student can grasp the subject. Many number of simple and complex problems are worked out to strengthen the theory. Most of the topics are presented in lucid manner so that the students belong to

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various branches like Electrical, Communication, Instrumentation and Mechanical Engineering can easily understand the subject. More than 250 worked out examples, 120 practice problems and 150 short questions and answers are given. It covers the entire syllabus of most of the Universities in India, with particular focus to Anna University, JNTU, University of Kerala, CUSAT, MG University, BPTU, VTU, UPTU, WBTU, and University of Bombay. Methods to draw Bode plots without much analytical calculations are given. Theory and

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problems on Nyquist criterion made simple. Methods of compensator design (using root locus and frequency response) are presented in lucid manner. Solutions to University question papers are included in a separate annexure.

DIGITAL SYSTEMS DESIGN USING VERILOG integrates coverage of logic design principles, Verilog as a hardware design language, and FPGA implementation to help electrical and computer engineering students master the process of designing and testing new hardware configurations. A Verilog equivalent of authors Roth and

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John's previous successful text using VHDL, this practical book presents Verilog constructs side-by-side with hardware, encouraging students to think in terms of desired hardware while writing synthesizable Verilog. Following a review of the basic concepts of logic design, the authors introduce the basics of Verilog using simple combinational circuit examples, followed by models for simple sequential circuits. Subsequent chapters ask readers to tackle more and more complex designs.

Important Notice: Media content referenced within the product description or the

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product text may not be available in the ebook version. This book is essential reading for the students of Mechanical Engineering. It is a rich blend of theoretical concepts and neat illustrations with footnotes and a list of formulae for ready reference

Key Features:" Step-by-Step approach to help students

An accessible undergraduate textbook introducing key fundamental principles behind modern communication systems, supported by exercises, software problems and lab exercises.

Theory and Applications  
English For Engineers Made



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Easy

Introduction to Storage Area  
Networks

A Textbook of Electrical  
Technology

A Textbook of Electrical  
Technology - Volume I (Basic  
Electrical Engineering)

Operation Research has emerged as the most spectacular aspect of optimization techniques. Practising professionals usually rate operations research as the most useful subjects studied in college. Operations Research is designed for the students of industrial engineering and management. This book comprises 12 chapters and

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provides the introduction of each chapter and various problems of real practical situation in the organizations as well as in daily life.

Accounting for Managers: For VTUPearson Education

IndiaTextbook of Elements of Mechanical EngineeringI. K.

International Pvt Ltd

For Mechnaical Enggining Students of Indian

Universities.It is also available in 4 Individual Parts

Made Easy Series is developed with an objective of meeting the requirement of books that cover syllabi of important core engineering subjects

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focussing completely on the manner in which concepts will be tested in examinations. Books in this series are designed in a question-and-answer format to cater to undergraduate students of all major technological universities and to equip them with the desired knowledge in a simple yet comprehensive manner. They explore all the important concepts of the syllabi with the help of solved questions and numerical problems of previous years? question papers of these universities. Apart from being extremely student-friendly and lucid, the

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books in this series are rich in pedagogical features such as brief point-wise discussion of fundamental concepts, theoretical questions with answers, solved numerical problems, and objective questions and exercises for further practice (all taken from previous years' question papers) that aid students in preparing well for university examinations. Because of the fiercely competitive nature of the current academic scenario and the large number of books available for each topic, it is extremely difficult for students to spend too much

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time in an in-depth study of each book, especially during examinations when they are hard-pressed for time. Made Easy Series will empower students to prepare for university examinations in a systematic and thorough manner in a limited amount of time. The syllabi of the following universities have been covered in the book:

UPTU, Anna Univ., JNTU, VTU, RTU, RGTU, WBUT, BPUT, PTU, Pune Univ., Mumbai Univ.

Technology Road Mapping for Quantum Computing and Engineering

Operations Research

Scientific Papers: 1887-1892

Metal Casting and Welding

Electric Motors

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This text applies object-oriented techniques to the entire software development cycle.

The superabundance of data that is created by today's businesses is making storage a strategic investment priority for companies of all sizes. As storage takes precedence, the following major initiatives emerge: Flatten and converge your network: IBM® takes an open, standards-based approach to implement the latest advances in the flat, converged data center network designs of today. IBM Storage solutions enable clients to deploy a high-speed, low-latency Unified Fabric Architecture. Optimize and

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automate virtualization:  
Advanced virtualization  
awareness reduces the cost and  
complexity of deploying physical  
and virtual data center  
infrastructure. Simplify  
management: IBM data center  
networks are easy to deploy,  
maintain, scale, and virtualize,  
delivering the foundation of  
consolidated operations for  
dynamic infrastructure  
management. Storage is no  
longer an afterthought. Too  
much is at stake. Companies are  
searching for more ways to  
efficiently manage expanding  
volumes of data, and to make  
that data accessible throughout

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the enterprise. This demand is propelling the move of storage into the network. Also, the increasing complexity of managing large numbers of storage devices and vast amounts of data is driving greater business value into software and services. With current estimates of the amount of data to be managed and made available increasing at 60% each year, this outlook is where a storage area network (SAN) enters the arena. SANs are the leading storage infrastructure for the global economy of today. SANs offer simplified storage management, scalability,



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flexibility, and availability; and improved data access, movement, and backup.

Welcome to the cognitive era.

The smarter data center with the improved economics of IT can be achieved by connecting servers and storage with a high-speed and intelligent network fabric. A smarter data center that hosts IBM Storage solutions can provide an environment that is smarter, faster, greener, open, and easy to manage. This IBM® Redbooks® publication provides an introduction to SAN and Ethernet networking, and how these networks help to achieve a smarter data center. This book is

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intended for people who are not very familiar with IT, or who are just starting out in the IT world. Aryan, a rich Bengali boy, grows up seeing his family's wealth take a plunge due to his father's ill health. The land mafia tries to grab hold of the last piece of land the family owns. He stands up against all odds, to fight them and to protect his family's land, which is the last hope to secure a decent future for the family, only to discover an ugly truth, that the family he had been protecting has turned their back on him, at his most crucial time of need. During this time, he loses his friends and the girl he

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loves, as she falls out of love with him and falls into the arms of her best friend. Depressed, hurt and hateful with vengeance, he decides to take on the people who brought him to this stage of ruin in his life, including his one-time love.

Teaches students the mathematical foundations of computer science, including logic, Boolean algebra, basic graph theory, finite state machines, grammars and algorithms, and helps them understand mathematical reasoning for reading, comprehension and construction of mathematical arguments.

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The Development of Its Laws  
and Constitution

Engineering Physics Made Easy

Engineering Physics (VTU)

7th International Conference,

NMA 2010, Borovets, Bulgaria,

August 20-24, 2010, Revised

Papers

Textbook of Elements of

Mechanical Engineering

**Special Features: This**

**textbook is useful for the**

**undergraduate students**

**embarking introductory**

**course in Mechatronics and**

**Microprocessors and covers**

**the revised syllabus**

**prescribed by Visvesvaraya**

**Technological University**

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**(VTU), Karnataka, India with effect from 2008 for third year Mechanical, Mechatronics and Automobile Engineering students.**

- 1. Updated coverage on microprocessors and programming as represented by the Syllabus Map.**
- 2. Working and applications provided for various components.**
- 3. Wide variety of solved problems with step-by-step solutions.**
- 4. Concepts well illustrated by labeled circuit diagrams.**
- 5. Related examples and microprocessors programs.**
- 6. Excellent pedagogy that includes:**

- 360+ illustrations**

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**and line diagrams.· 60+ solved examples.· 260+ review questions.· 160+ objective-type questions.· 30+ chapter-end problems.· 50+ explanatory examples.· Model question papers. About The Book: This textbook is useful for the undergraduate students embarking on an introductory course in Mechatronics and Microprocessors. The text focuses and is written for engineering students, and for those who would like to understand the principles of mechatronic systems and microprocessors. However, it**

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**is designed to meet with the requirements for mechanical, manufacturing and automobile engineering programmes prescribed by the Visvesvaraya Technological University (VTU), Karnataka, in India. It covers the revised syllabus prescribed by VTU Karnataka, with effect from 2008 for third year Mechanical, Mechatronics and Automobile Engineering students.· Updated coverage on microprocessors and programming as represented by the Syllabus Map.· Working and applications provided for various components.· Wide**

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**variety of solved problems with step-by-step solutions. Concepts well illustrated by labeled circuit diagrams. Related examples and microprocessors programs. Excellent pedagogy that includes:" 360+ illustrations and line diagrams." 60+ solved examples." 260+ review questions." 160+ objective-type questions." 30+ chapter-end problems." 50+ explanatory examples. Model question papers.**

**Metal casting is the process of producing metal or alloy component parts. In casting the metal is heated sufficiently**



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**to make it into liquid and then poured into moulds of the desired shape. Casting is most often used for making complex shapes so that would be difficult or uneconomical to make by other methods.**

**Welding is a fabrication process that joins materials usually metals by using high heat to melt the parts together and allowing them to cool causing fusion. Many different energy sources can be used for welding including gas flame, electric arc, a laser and electron beam, friction and ultrasonic. Our hope is that this book, through its careful**

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**explanations and concepts and its use of sketches and figures bridges the gap between knowledge and proper application of that knowledge.**

**This book constitutes the thoroughly refereed post-conference proceedings of the 7th International Conference on Numerical Methods and Applications, NMA 2010, held in Borovets, Bulgaria, in August 2010. The 60 revised full papers presented together with 3 invited papers were carefully reviewed and selected from numerous submissions for inclusion in**

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**this book. The papers are organized in topical sections on Monte Carlo and quasi-Monte Carlo methods, environmental modeling, grid computing and applications, metaheuristics for optimization problems, and modeling and simulation of electrochemical processes. This manual is specially written for Students who are interested in understanding Structured Query Language and PL-SQL concepts in the Computer Engineering and Information technology field and wants to gain enhance knowledge about power of**

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**SQL Language in Relational Database Management System Development. The manual covers practical point of view in all aspects of SQL and PL/SQL including DDL, DML, DCL sublanguages, also there are practices for Views, Group by, Having Clause. All PL-SQL concepts like Condition and Loop Structures, Functions and Procedures, Cursor, Triggers, Locks are illustrated using best examples**

**Electromagnetic Field Theory  
Basic Electrical Engineering  
Made Easy  
VISVESVARAYA  
TECHNOLOGICAL**

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## **UNIVERSITY**

### **Technical English 1**

### **Object-oriented Modeling and Design**

Quantum computing is radically different from the conventional approach of transforming bit-strings from one set of zeros and ones to another. With quantum computing, everything changes. The physics used to understand bits of information and the devices that manipulate them are vastly different. Quantum engineering is a revolutionary approach to quantum technology. Technology Road Mapping for Quantum Computing and Engineering explores all the aspects of quantum computing concepts, engineering, technologies, operations, and

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applications from the basics to future advancements. Covering topics such as machine learning, quantum software technology, and technology road mapping, this book is an excellent resource for data scientists, engineers, students and professors of higher education, computer scientists, researchers, and academicians.

The primary objective of vol. I of A Text Book of Electrical Technology is to provide a comprehensive treatment of topics in Basic Electrical Engineering both for electrical as well as nonelectrical students pursuing their studies in civil, mechanical, mining, textile, chemical, industrial, environmental, aerospace, electronic and computer engineering both at the Degree and diploma level. Based on the

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suggestions received from our esteemed readers, both from India and abroad, the scope of the book has been enlarged according to their requirements. Almost half the solved examples have been deleted and replaced by latest examination papers set upto 1994 in different engineering collage and technical institutions in India and abroad.

Metal cutting is the process of removing unwanted material in the form of chips from a block of metal using cutting tools. Metal cutting is performed on lathe machine, milling machine, drilling machine, shaper, planer and slotter. Grinding is the commonly used finishing process.

Metal forming includes a large number of manufacturing processes in which plastic deformation property is used to

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change the shape and size of metal workpieces. During the process, for deformation purpose, a tool is used which is called as die. It applies stresses to the material to exceed the yield strength of the metal. Due to this the metal deforms into the shape of the die. Generally, the stresses applied to deform the metal plastically are compressive. Sheet metal working is generally associated with press machines and press working. Press working is a chipless manufacturing process by which various components are produced from sheet metal.

Market\_Desc: Primary Market· VTU: 06ME71 Control Engineering 7th Sem/ EC/TC/EE/IT/BM/ML 06ES43 4th Sem· JNTU: ECE/EEE Control Systems 4th Sem· Anna: ECE/EEE



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PTEC 9254/PTEE 9201 Control Systems 3rd Sem· UPTU (ME)EEE-409 Electrical Machines & Automatic Control 4th Sem/ ECE/ETE/EEE EEC503/EEE502 Control Systems 5th Sem· Mumbai: ETE Principles of Control System 5th Sem· BPUT ETE/EEE/ECE CPEE 5302 Control System Engineering 6th Sem· WBUT EE-503 Control System 5th Sem; EC-513 Control System 5th Sem· RGPV EC-402 Control Systems, 4th Sem· PTU ECE/EIE/EEE IC-204 Linear Control System 4th Sem· GNDU ECE ECT-223 Linear Control System 4th SemSecondary Market· BPUT:CPME 6403 Mechanical Measurement and Control, 7th sem· RGPV: ME 8302 Mechatronics, 8th Sem elective· Anna: PTME9035 measurement and controls, 8th Sem· UPTU: TME-028

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Automatic Controls, Elective 8th Sem· Mumbai: Mechatronics, 6th Sem· WBUT: ME 602 Mechatronics and Modern Control, 6th Sem  
Special Features: § The book provides clear exposure to the principles of control system design and analysis techniques using frequency and time domain analysis. § Explains the important topics of PID controllers and tuning procedures. § Includes state space methods for analysis of control system. § Presents necessary mathematical topics such as Laplace transforms at relevant places. § Contains detailed artwork capturing circuit diagrams, signal flow graphs, block diagrams and other important topics. § Presents stability analysis using Bode plots, Nyquist diagrams and Root locus

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techniques. Each chapter contains a wide variety of solved problems with stepwise solutions.

Appendices present the use of MATLAB programs for control system design and analysis, and basic operations of matrices.

Model question papers contain questions from various university question papers at the end of the book. Excellent pedagogy includes

- 520+ Figures and tables
- 200+ Solved problems
- 90+ Objective questions
- 100+ Review questions
- 70+ Numerical problems

About The Book: Control

Engineering is the field in which control theory is applied to design systems to produce desirable outputs. It essays the role of an incubator of emerging technologies. It has very broad

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applications ranging from automobiles, aircrafts to home appliances, process plants, etc. This subject gains importance due to its multidisciplinary nature, and thus establishes itself as a core course among all engineering curricula. This textbook aims to develop knowledge and understanding of the principles of physical control system modeling, system design and analysis. Though the treatment of the subject is from a mechanical engineering point of view, this book covers the syllabus prescribed by various universities in India for aerospace, automobile, industrial, chemical, electrical and electronics engineering disciplines at undergraduate level.

Engineering Chemistry Made Easy

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Introduction to Communication  
Systems

CONTROL ENGINEERING

The Republic of India

COMPUTER AIDED ELECTRICAL  
DRAWING

***This book, in its third edition, continues to focus on the basics of civil engineering and engineering mechanics to provide students with a balanced and cohesive study of the two areas (as needed by them in the beginning of their engineering education). A basic undergraduate textbook for the first-year students of all branches of engineering, this book is specifically designed to conform to the syllabus of Visvesvaraya Technological University (VTU). Imparting the basic knowledge in various facets of civil engineering and the related***

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***engineering structures and infrastructure such as buildings, roads, highways, dams and bridges, the third edition covers the engineering mechanics portion in eleven chapters. Each chapter introduces the concepts to the reader, stepwise. Providing a wealth of practice examples, the book emphasizes the importance of building strong analytical skills. Practice problems, at the end of each chapter, give students an opportunity to absorb concepts and hone their problem-solving skills. The book comes with a companion CD containing the software developed using MS-Excel, to work out the problems on Forces, Centroid, Friction and Moment of Inertia. The use of this software will enable the students to understand***

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***the concepts in a relatively better way. NEW TO THIS EDITION • Introduces a chapter on Kinematics as per the revised Civil Engineering syllabus of VTU • Updates with the latest examination Question Papers, including the one held in the month of December 2013***

***Fluid Mechanics is the branch of physics concerned with the mechanics of fluids and forces acting on them. It includes unlimited practical applications ranging from microscopic biological systems to automobiles, airplanes and spacecraft propulsion. Fluid Mechanics is the study of fluid behavior at rest and in motion. It also gives information about devices used to measure flow rate, pressure and velocity of fluid. The book uses plain, Lucid***

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***language to explain fundamentals of this subject. The book provides logical method of explaining various complicated concepts and stepwise methods to explain the important topics. Each chapter is well supported with necessary illustrations, practical examples and solved problems. All the chapters in the book are arranged in a proper sequence that permits each topic to build upon earlier studies. All care has been taken to make readers comfortable in understanding the basic concepts of the subject. This book begins with an introduction to Verilog HDL. It describes basic concepts in Verilog HDL, language constructs and conventions and modeling styles - gate-level modeling, data-flow level modeling, behavioral modeling and***



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***switch level modeling. It also describes sequential models, basic memory components, functional register, static machine coding and sequential synthesis. The last section of the book focuses on component testing and verification. It includes combinational circuits testing, sequential circuit testing, test bench techniques, design verification and assertion verification.***

***An indispensable companion for students.***

***Cognitive and Linguistic Aspects of Geographic Space***

***Basic Thermodynamics***

***The Constitution of India***

***Respect***

***DBMS Lab Manual***

***This book is prepared as per the syllabus of***

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**VISVESVARAYA TECHNOLOGICAL  
UNIVERSITY, Karnataka for  
first year B. Tech  
(Engineering) course using  
the reference books given  
in the course syllabus.  
Authors have tried to  
elucidate the topics such  
a way that even a mediocre  
student can assimilate  
them. Many solved  
problems, sample question  
papers and exercise given  
in every section will  
provide a thorough  
understanding of topics.  
This book "Engineering  
Physics" is prepared  
specially for I and II  
Semester students of**

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*B.E./B.Tech. Course of  
Visvesvaraya Technological  
University. The subject  
matter has been  
methodically and  
systematically developed  
from the fundamental  
experimental physics. This  
text book has been written  
keeping in mind the  
difficulties of the  
students. KEY FEATURES •  
Number of solved problems  
for practice •  
Comprehensive text with  
lucid language • Revision  
questions, chapter end  
summary and list of  
formulae for better recap  
• Model Question papers*

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*for better insight into  
the subject matter  
This Book Titled Basic  
Thermodynamics Makes An  
Attempt To Cover The  
Portions Keeping In View  
Of The Syllabus For Iiird  
Semester B.E., Mechanical,  
Prescribed By  
Visveswaraiah  
Technological University.  
This Book Can Also Be  
Useful For Students Of  
Other Engineering  
Disciplines Like B.E. In  
Industrial Production,  
Industrial Engineering  
Management, Automobile,  
Diploma In Mechanical And  
Ip, Iem And Automobile*

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*Engineering, Amie Etc. The Whole Book Is Written With Precise Explanations, Neat Sketches And Good Number Of Numericals. The Numerical Problems From Vtu Question Papers Have Also Been Updated.*

*Intended as a text for the undergraduate students of electrical engineering, it emphasises on design concept and drawing electrical apparatus based on design approach. To stay at par with the present day technology, AutoCAD® 2014 is used in this book to draw electrical apparatus. It*

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*gives a comprehensive view of winding diagrams of different machines, its types along with the assembling technique of various electrical machines and also the single line representations of the power system with various standard symbols. This book has been prepared to meet the needs of the students in a simpler manner. Every topic has been dealt carefully with necessary explanation and presentation of the material is lucid. This student-friendly text also*

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*covers those topics which are required by aspiring engineers in practical situations along with the present industrial requirements and standards. KEY FEATURES • Use of plenty of illustrations for explaining the concepts or the principles. • Inclusion of practical problems with their solutions. • Graded exercises and model questions at the end of each chapter. With CD-Rom*

**Control Systems  
Engineering**

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*Accounting for Managers:*

*For VTU*

*Discrete Mathematical*

*Structures*

*Metal Cutting and Forming*