

Where To Download Elements  
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## **Elements Of Electrical Engineering Gtu Book Free**

***Electric Circuit Analysis is designed for undergraduate course on basic electric circuits. The book builds on the subject from its basic principles. Spread over fourteen chapters, the book can be taught with varying degree of emphasis based on the course requirement. Written in a student-friendly manner, its narrative style places adequate stress on the principles that govern the***

***behaviour of electric circuits. 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 glimpse towards the latest developments in the concerned subject and the relevant disciplines. It should guide the periodic review and updating of the curriculum. This self-contained book gives a detailed treatment of optimal control theory that enables readers to formulate and solve***

***optimal control problems. With a strong emphasis on problem solving, it provides all the necessary mathematical analyses and derivations of important results, including multiplier theorems and Pontryagin's principle. The text presents various examples and basic concepts of optimal control and describes important numerical methods and computational algorithms for solving a wide range of optimal control problems, including periodic processes.***

***Power Electronics  
Semiconductor Devices***

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**Engineering Mathematics  
Elements of MECHANICAL  
ENGINEERING**

**Digital Electronics  
Elements of Mechanical  
Engineering(GTU)**

*Engineering Physics has been specifically designed and written to meet the requirements of the engineering students of GTU. All the topics and sub-topics are neatly arranged for the students. A number of assignment problems, along with questions and answers, have also been provided. MCQs for the bridge course have been*

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*designed in such a way that the students can recollect every concept that they have read and apply easily during the examination. KEY*

*FEATURES • Detailed discussion of every topic from elementary to comprehensive level with several worked-out examples • A section on practicals • Solved Question Papers- Dec 2013 and June 2014 • As per the syllabus for 2013-14*

*Elements of Electrical Engineering (gtu).Electric Circuits And Networks (For Gtu)Pearson Education*

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*India Elements of*

*Mechanical*

*Engineering(GTU)S. Chand*

*Publishing*

*The fundamentals and*

*implementation of digital*

*electronics are essential to*

*understanding the design*

*and working of*

*consumer/industrial*

*electronics,*

*communications, embedded*

*systems, computers, security*

*and military equipment.*

*Devices used in applications*

*such as these are constantly*

*decreasing in size and*

*employing more complex*

*technology. It is therefore*

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*essential for engineers and students to understand the fundamentals, implementation and application principles of digital electronics, devices and integrated circuits. This is so that they can use the most appropriate and effective technique to suit their technical need. This book provides practical and comprehensive coverage of digital electronics, bringing together information on fundamental theory, operational aspects and potential applications. With worked problems, examples,*

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*and review questions for each chapter, Digital Electronics includes: information on number systems, binary codes, digital arithmetic, logic gates and families, and Boolean algebra; an in-depth look at multiplexers, demultiplexers, devices for arithmetic operations, flip-flops and related devices, counters and registers, and data conversion circuits; up-to-date coverage of recent application fields, such as programmable logic devices, microprocessors, microcontrollers, digital*



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*troubleshooting and digital instrumentation. A comprehensive, must-read book on digital electronics for senior undergraduate and graduate students of electrical, electronics and computer engineering, and a valuable reference book for professionals and researchers.*

*Electric Circuit Analysis*

*Electromagnetic Field*

*Theory*

*Elements of Electrical*

*Engineering (gtu).*

*Optimal Control for*

*Chemical Engineers*

*Graph Theory with*

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### *Applications to Engineering and Computer Science*

This edition of Design of Machine Elements has been revised extensively to bring in several new topics and update other contents. Plethora of solved examples and practice problems make this an excellent offering for the students and the teachers. Highlight.

Attuned to the needs of undergraduate students of engineering in their first year, Basic Electrical Engineering enables them to build a strong foundation in the subject. A large number of real-world examples illustrate the applications of complex theories. The book comprehensively covers all the areas taught in a one-semester course and serves as an ideal study material on the subject.

Engineering Mathematics (Conventional and Objective Type) completely covers the

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subject of Engineering Mathematics for engineering students (as per AICTE) as well as engineering entrance exams such as GATE, IES, IAS and Engineering Services Exams. Though a first edition, the book is enriched by 50 years of Academics and professional experience of the Author(s) and the experience of more than 85 published books.

Elements of Power System Analysis

Elements of Mechanical Engineering

Automobile Mechanical and Electrical  
Systems

Electric Circuits And Networks (For Gtu)

***This book provides a comprehensive overview of this multi-disciplinary subject, which has interaction with other disciplines, such as mineralogy, petrology, structural geology, hydrogeology, seismic***

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*engineering, rock engineering, soil mechanics, geophysics, remote sensing (RS-GIS-GPS), environmental geology, etc.*

*D. C. Circuit Concept of EMF, P.D. and current, Resistance, Effect of temperature of resistance, resistance-temperature co-efficient, Classification of electric network. Ohm's law, Kirchoff's law and their application for network solution, Simplification of network using series and parallel combination and star delta transformation. Magnetic Circuit Magnetic effect of electric current, Law of magnetic force, Magnetic field, Concept of mmf, Magnetic flux, Flux density,*

*Reluctance permeability and field strength and their units. Cross and dot convention current, Simple series and parallel magnetic circuit, Comparison between electric circuit and magnetic circuit, Force on current carrying conductor in magnetic field, Fleming's rules. A. C. Fundamentals Representation of an a.c. source polarity of a.c. source, Generation of a.c. voltage, Concept of instantaneous, Peak, Average and r.m.s values cycle, Period, Frequency, Peak factor and form factor phase difference, Phasor representation and indication of phase difference in it. Rectangular and polar representation of phasor. A.C.*

***Circuit Study of a.c. circuit consisting of purely resistive, Purely inductive, Purely capacitive type and corresponding voltage and current phasor diagram. Concept of reactance. Study of series and parallel circuit consisting resistance, Inductance and capacitance and its phasor, Combination of to develop the concept of impedance, Admittance, Conductance, Susceptance. Necessity of earthing, Its types, Fuses safety precaution in working with electricity, Circuit and operation of filament lamp. Fluorescent tube, Mercury vapour, Sodium vapour lamp.***

***This third edition of Basic***

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*Electrical Engineering provides a lucid exposition of the principles of electrical engineering. The book provides an exhaustive coverage of topics such as network theory and analysis, magnetic circuits and energy conversion, ac and dc machines, basic analogue instruments, and power systems. The book also gives an introduction to illumination concepts.*

*an introduction to signals and noise in electrical communication*

*Group Theory Made Easy for Scientists and Engineers*

*Basic Mechanical Engineering*

*Microprocessors & Microcontrollers*

*Engineering Geology (For GTU)*

This book relates the recent

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developments in several key electrical engineering R&D labs, concentrating on power electronics switches and their use. The first sections deal with key power electronics technologies, MOSFETs and IGBTs, including series and parallel associations. The next section examines silicon carbide and its potentiality for power electronics applications and its present limitations. Then, a dedicated section presents the capacitors, key passive components in power electronics, followed by a modeling method allowing the stray inductances computation,



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necessary for the precise simulation of switching waveforms. Thermal behavior associated with power switches follows, and the last part proposes some interesting prospectives associated to Power Electronics integration. Strictly according to the New Syllabus of Gujarat Technology University, Ahmedabad (Common to All Branches of B.E. / B.Tech 1st year)

Pentium Microprocessor  
Historical evolution of 80286,  
386 and 486 processors,  
Pentium features and  
architecture, Pin description,  
Functional description, Pentium

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real mode, Pentium RISC features, Pentium super-scalar architecture - pipelining, Instruction paring rules, Branch prediction, Instruction and data caches The floating-point unit. Bus Cycles and Memory Organisation Initialization and configuration, Bus operations- reset, Non pipelined and pipelined (read and write), Memory organisation and I/O organisation, Data transfer mechanism-8 bit, 16 bit, 32 bit data bus interface. Pentium programming Programmer's model, Register set, Addressing modes, Instruction set, Data types, Data transfer instructions,

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String instructions, Arithmetic instructions, Logical instructions, Bit manipulation instructions, Program transfer instructions and Processor control instructions. Protected Mode Introduction, Segmentation-support registers, Related instructions descriptors, Memory management through segmentation, Logical to linear address translation, Protection by segmentation, Privilege level-protection, Related instructions, Inter-privilege level transfer of control, Paging-support registers, descriptors, Linear to physical address translation, TLB, Page level protection, Virtual

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memory. Multitasking, Interrupts  
Exceptions and I/O Multitasking -  
Support registers, Related  
descriptors, Task switching, I/O  
Permission bit map. Virtual mode  
- features, Address generation,  
Privilege level, Instructions and  
registers available, entering and  
leaving V86 mode. Interrupt  
structure - Real, Protected and  
Virtual 8086 modes, I/O handling  
in Pentium, Comparison of all  
three modes. 8051 Micro-  
controller Micro-controller  
MCS-51 family architecture, On-  
chip data memory and program  
memory organization - Register  
set, Register bank, SFRs,  
External data memory and

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program memory, Interrupts structure, Timers and their programming, Serial port and programming, Other features, Design of minimum system using 8051 micro-controller for various applications. PIC Micro-controller Overview and features of PIC16C, PIC 16F8XX, Pin diagram, Capture mode, Compare mode, PWM mode, Block diagram, Programmer's model PIC, Reset and clocking. Memory organization - program memory, data memory, Flash, EEPROM, PIC 16F8XX addressing modes, Instruction set, programming, I/O ports, Interrupts, Timers, ADC.

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Fundamentals and Applications  
Theory and Practice

S. Chand's Engineering Physics  
(For GTU, Ahmedabad)

Design of Machine Elements

The Theory of Machines

*A Rigorous Mathematical Approach To  
Identifying A Set Of Design Alternatives  
And Selecting The Best Candidate From  
Within That Set, Engineering Optimization  
Was Developed As A Means Of Helping  
Engineers To Design Systems That Are  
Both More Efficient And Less Expensive  
And To Develop New Ways Of Improving  
The Performance Of Existing  
Systems. Thanks To The Breathtaking  
Growth In Computer Technology That  
Has Occurred Over The Past Decade,  
Optimization Techniques Can Now Be  
Used To Find Creative Solutions To  
Larger, More Complex Problems Than*

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*Ever Before. As A Consequence, Optimization Is Now Viewed As An Indispensable Tool Of The Trade For Engineers Working In Many Different Industries, Especially The Aerospace, Automotive, Chemical, Electrical, And Manufacturing Industries. In Engineering Optimization, Professor Singiresu S. Rao Provides An Application-Oriented Presentation Of The Full Array Of Classical And Newly Developed Optimization Techniques Now Being Used By Engineers In A Wide Range Of Industries. Essential Proofs And Explanations Of The Various Techniques Are Given In A Straightforward, User-Friendly Manner, And Each Method Is Copiously Illustrated With Real-World Examples That Demonstrate How To Maximize Desired Benefits While Minimizing Negative Aspects Of Project Design. Comprehensive, Authoritative, Up-*

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*To-Date, Engineering Optimization Provides In-Depth Coverage Of Linear And Nonlinear Programming, Dynamic Programming, Integer Programming, And Stochastic Programming Techniques As Well As Several Breakthrough Methods, Including Genetic Algorithms, Simulated Annealing, And Neural Network-Based And Fuzzy Optimization Techniques. Designed To Function Equally Well As Either A Professional Reference Or A Graduate-Level Text, Engineering Optimization Features Many Solved Problems Taken From Several Engineering Fields, As Well As Review Questions, Important Figures, And Helpful References. Engineering Optimization Is A Valuable Working Resource For Engineers Employed In Practically All Technological Industries. It Is Also A Superior Didactic Tool For Graduate Students Of Mechanical, Civil, Electrical,*



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*Chemical And Aerospace Engineering. Basic Electrical Engineering Has Been Written As A Core Course For All Engineering Students Viz. Electronics And Communication Engineering, Computer Engineering, Civil Engineering, Mechanical Engineering Etc. Since This Course Will Normally Be Offered At The First Year Level Of Engineering, The Author Has Made Modest Effort To Give In A Concise Form, Various Features Of Basic Electrical Engineering Using Simple Language And Through Solved Examples, Avoiding The Rigorous Of Mathematics. The Salient Features Of The Book Are :*

- \* Steady State Analysis Of A.C. Circuits Explained.*
- \* Network Theorems Explained Using Typical Examples.*
- \* Analysis Of 3-Phase Circuits And Measurement Of Power In These Circuits Explained.*
- \* Measuring Instruments Like Ammeter, Voltmeter, Wattmeter And*

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*Energy Meter Described. \* Various Electrical Machines Viz. Transformers, D.C. Machines, Single Phase And Three Phase Induction Motors, Synchronous Machines, Servomotors Have Been Described. \* A Brief View Of Power System Including Conventional And Non-Conventional Services Of Electric Energy Is Given. \* Domestic Wiring Has Been Discussed. \* Numerous Solved Examples And Practice Problems For Thorough Grasp Of The Subject Presented. \* A Large Number Of Multiple Choice Questions With Answers Given.*

*This is an introduction to power system analysis and design. The text contains fundamental concepts and modern topics with applications to real-world problems, and integrates MATLAB and SIMULINK throughout.*

*Engineering Circuit Analysis  
Electronics and Circuit Analysis Using*

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*MATLAB*

*Energy Research Abstracts*

*Engineering Optimization*

*Fundamentals of Electrical Engineering*

**Mechanical engineering, as its name suggests, deals with the mechanics of operation of mechanical systems. This is the branch of engineering which includes design, manufacturing, analysis and maintenance of mechanical systems. It combines engineering physics and mathematics principles with material science to design, analyse, manufacture and maintain mechanical systems. This book covers the field requires an understanding of core areas including thermodynamics, material science, manufacturing, energy**

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**conversion systems, power transmission systems and mechanisms. My hope is that this book, through its careful explanations of concepts, practical examples and figures bridges the gap between knowledge and proper application of that knowledge. Divided into four parts: circuits, electronics, digital systems, and electromagnetics, this text provides an understanding of the fundamental principles on which modern electrical engineering is based. It is suitable for a variety of electrical engineering courses, and can also be used as a text for an introduction to electrical engineering.**

**"Containing over 1, 400 articles, this is the most comprehensive**

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**encyclopedia of electrical engineering available. The articles were written and reviewed by an international group of engineers with academic or research affiliations. The entries are grouped into 64 broad categories such as solid-state circuits, fuzzy systems, and medical imaging. Mathematical explanations, tables, and graphics illustrate the articles. An extensive index by subject and keyword makes locating material easy. All of the articles have bibliographies. Larger public libraries and academic libraries with engineering majors will find this to be a useful source."**--" **Outstanding reference sources 2000 "**, **American Libraries, May 2000.**

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**Comp. by the Reference Sources  
Committee, RUSA, ALA.**

**Communication systems**

**Wiley Encyclopedia of Electrical  
and Electronics Engineering**

**Electrical Circuit Analysis**

**Engineering Physics (with  
Practicals) (GTU), 8th Edition**

**Principles, Devices and  
Applications**

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

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*and workings of a vehicle from the engine through to the chassis and electronics. It also explains the necessary tools and equipment needed in effective car maintenance and repair, and relevant safety procedures are included throughout. Designed to make learning easier, this book contains: Photographs, flow charts and quick reference tables Detailed diagrams and clear descriptions that simplify the more complicated topics and aid revision Useful features throughout, including*

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*definitions, key facts and 'safety first' considerations. In full colour and with support materials from the author's website ([www.automotive-technology.org](http://www.automotive-technology.org)), this is the guide no student enrolled on an automotive maintenance and repair course should be without. The book strictly complies with the new syllabus of Gujrat Technological University, Ahmedabad, for B.E. First year of all braches of Engineering. The subject matter is presented in a graded stepwise, easytofollow style. Each*



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*chapter includes*

*MultipleChoice*

*Questions,Review Questions  
and Exercises for easy  
recapitulation.*

*The importance of Electrical  
Circuit Analysis is well known  
in the various engineering  
fields. The book provides  
comprehensive coverage of  
mesh and node analysis,  
various network theorems,  
analysis of first and second  
order networks using time  
and Laplace domain, steady  
state analysis of a.c. circuits,  
coupled circuits and dot  
conventions, network  
functions, resonance and*

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*two port network parameters. The book starts with explaining the network simplification techniques including mesh analysis, node analysis and source shifting. Then the book explains the various network theorems and concept of duality. The book also covers the solution of first and second order networks in time domain. The sinusoidal steady state analysis of electrical circuits is also explained in the book. The book incorporates the discussion of coupled circuits and dot conventions. The*

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*Laplace transform plays an important role in the network analysis. The chapter on Laplace transform includes properties of Laplace transform and its application in the network analysis. The book includes the discussion of network functions of one and two port networks. The book incorporates the detailed discussion of resonant circuits. The book covers the various aspects of two port network parameters along with the conditions of symmetry and reciprocity. It also derives the interrelationships between*

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*the two port network parameters. The book uses plain and lucid language to explain each topic. Each chapter gives the conceptual knowledge about the topic dividing it in various sections and subsections. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. The variety of solved examples is the feature of this book. The book explains the philosophy of the subject which makes the understanding of the subject very clear and makes*

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*the subject more interesting.*

*Control System Engineering*

*Basic Electrical Engineering*

*Elements of Electrical*

*Engineering*

**A TEXTBOOK OF**

**ENGINEERING CHEMISTRY**

*Basic Electrical and*

*Electronics Engineering*

This book is designed based on

revised syllabus of Gujarat

Technological University, Gujarat

(AICTE model curriculum) for

under-graduate (B.Tech/BE)

students of all branches, those

who study Basic Electrical

Engineering as one of the

subject in their curriculum. The

primary goal of this book is to

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establish a firm understanding of the basic laws of Electric Circuits, Network Theorems, Resonance, Three-phase circuits, Transformers, Electrical Machines and Electrical Installation.

The book is written for an undergraduate course on the Feedback Control Systems. It provides comprehensive explanation of theory and practice of control system engineering. It elaborates various aspects of time domain and frequency domain analysis and design of control systems. Each chapter starts with the background of the topic. Then it

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gives the conceptual knowledge about the topic dividing it in various sections and subsections. Each chapter provides the detailed explanation of the topic, practical examples and variety of solved problems. The explanations are given using very simple and lucid language. All the chapters are arranged in a specific sequence which helps to build the understanding of the subject in a logical fashion. The book starts with explaining the various types of control systems. Then it explains how to obtain the mathematical models of various types of systems such as electrical, mechanical, thermal

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and liquid level systems. Then the book includes good coverage of the block diagram and signal flow graph methods of representing the various systems and the reduction methods to obtain simple system from the analysis point of view. The book further illustrates the steady state and transient analysis of control systems. The book covers the fundamental knowledge of controllers used in practice to optimize the performance of the systems. The book emphasizes the detailed analysis of second order systems as these systems are common in practice and higher order systems can be



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approximated as second order systems. The book teaches the concept of stability and time domain stability analysis using Routh-Hurwitz method and root locus method. It further explains the fundamentals of frequency domain analysis of the systems including co-relation between time domain and frequency domain. The book gives very simple techniques for stability analysis of the systems in the frequency domain, using Bode plot, Polar plot and Nyquist plot methods. It also explores the concepts of compensation and design of the control systems in time domain and frequency

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domain. The classical approach loses the importance of initial conditions in the systems. Thus, the book provides the detailed explanation of modern approach of analysis which is the state variable analysis of the systems including methods of finding the state transition matrix, solution of state equation and the concepts of controllability and observability. The variety of solved examples is the feature of this book which helps to inculcate the knowledge of the design and analysis of the control systems in the students. The book explains the philosophy of the subject which

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makes the understanding of the concepts very clear and makes the subject more interesting.

This book provides a comprehensive and wide-ranging introduction to the fundamental principles of mechanical engineering in a distinct and clear manner. The book is intended for a core introductory course in the area of foundations and applications of mechanical engineering, prescribed for the first-year students of all disciplines of engineering. The book develops an intuitive understanding of the basic principles of thermodynamics as well as of the principles

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governing the conversion of heat into energy. Numerous illustrative examples are provided to fortify these concepts throughout. The book gives the students a feel for how thermodynamics is applied in engineering practice in the areas of heat engines, steam boilers, internal combustion engines, refrigeration and air conditioning, and to devices such as turbines, pumps and compressors. The book also provides a basic understanding of mechanical design, illustrating the principles through a discussion of devices designed for the transmission of motion and power such as

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couplings, clutches and brakes. No book on basic mechanical engineering is complete without an introduction to materials science. The text covers the treatment of the common engineering materials, highlighting their properties and applications. Finally, the role of lubrication and lubricants in reducing the wear and tear of parts in mechanical systems, is lucidly explained in the concluding chapter. The text features several fully worked-out examples, a fairly large number of numerical problems with answers, end-of-chapter review questions and multiple choice

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questions, which all enhance the value of the text to the students.

Besides the students studying for an engineering degree, this book is also suitable for study by the students of AMIE and the students of diploma level courses.

Power System Analysis

**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**

**Electromagnetic Field Theory for**

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**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 energy in the electrostatic fields. The detailed discussion of current density,**

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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 force on a moving charge, force on differential current element and magnetic boundary conditions. The book covers all the details of Faraday's laws,



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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 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

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**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.**

**The use of MATLAB is ubiquitous in the scientific and engineering communities today, and justifiably so. Simple programming, rich graphic facilities, built-in functions, and extensive toolboxes offer users the power and flexibility they need to solve the complex analytical problems inherent in modern technologies. The ability to use MATLAB effectively has become practically a**

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**prerequisite to success for engineering professionals. Like its best-selling predecessor, Electronics and Circuit Analysis Using MATLAB, Second Edition helps build that proficiency. It provides an easy, practical introduction to MATLAB and clearly demonstrates its use in solving a wide range of electronics and circuit analysis problems. This edition reflects recent MATLAB enhancements, includes new material, and provides even more examples and exercises. New in the Second Edition: Thorough revisions to the first three chapters that incorporate additional MATLAB functions**

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**and bring the material up to date with recent changes to MATLAB**  
**A new chapter on electronic data analysis**  
**Many more exercises and solved examples**  
**New sections added to the chapters on two-port networks, Fourier analysis, and semiconductor physics**  
**MATLAB m-files available for download**  
**Whether you are a student or professional engineer or technician, Electronics and Circuit Analysis Using MATLAB, Second Edition will serve you well. It offers not only an outstanding introduction to MATLAB, but also forms a guide to using MATLAB for your specific purposes: to explore the**

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**characteristics of semiconductor devices and to design and analyze electrical and electronic circuits and systems.**

**Because of its inherent simplicity, graph theory has a wide range of applications in engineering, and in physical sciences. It has of course uses in social sciences, in linguistics and in numerous other areas. In fact, a graph can be used to represent almost any physical situation involving discrete objects and the relationship among them. Now with the solutions to engineering and other problems becoming so complex leading to larger graphs, it is virtually difficult to**

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**analyze without the use of computers. This book is recommended in IIT Kharagpur, West Bengal for B.Tech Computer Science, NIT Arunachal Pradesh, NIT Nagaland, NIT Agartala, NIT Silchar, Gauhati University, Dibrugarh University, North Eastern Regional Institute of Management, Assam Engineering College, West Bengal University of Technology (WBUT) for B.Tech, M.Tech Computer Science, University of Burdwan, West Bengal for B.Tech. Computer Science, Jadavpur University, West Bengal for M.Sc. Computer Science, Kalyani College of**

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**Engineering, West Bengal for  
B.Tech. Computer Science. Key  
Features: This book provides a  
rigorous yet informal treatment  
of graph theory with an  
emphasis on computational  
aspects of graph theory and  
graph-theoretic algorithms.  
Numerous applications to actual  
engineering problems are  
incorporated with software  
design and optimization topics.**