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included in every syllabus, and ...

~~Principles and Applications of Electrical Engineering ...~~

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For courses in Electrical Engineering. The #1 title in its market, Electrical Engineering: Principles and Applications helps students learn electrical-engineering fundamentals with minimal frustration. Its goals are to present basic concepts in a general setting, to show students how the principles of electrical engineering apply to specific problems in their own fields, and to enhance the overall learning process. This book covers circuit analysis, digital systems, electronics, and electromechanics at a level appropriate for either electrical-engineering students in an introductory course or non-majors in a survey course. A wide variety of pedagogical features stimulate student interest and engender awareness of the material's relevance to their chosen profession. The only essential prerequisites are basic physics and single-variable calculus. The 7th Edition features technology and content updates throughout the text.

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In recent years Basic Electrical Engineering: Principles, Designs & Applications are being used extensively in Electrical Engineering, Microprocessor, Electrical Drives and Power Electronics research and many other things. This rapid progress in Electrical & Electronics Engineering has created an increasing demand for trained Electrical Engineering personnel. This book is intended for the undergraduate and postgraduate students specializing in Electronics Engineering. It will also serve as reference material for engineers employed in industry. The fundamental concepts and principles behind electronics engineering are explained in a simple, easy- to- understand manner. Each chapter contains a large number of solved example or problem which will help the students in problem solving and designing of Electronics

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system. This text book is organized into thirteen chapters. Chapter-1: AC and DC Circuit Analysis Chapter 2: Network Reduction and Network Theorems Chapter-3: Resonance and Coupled Circuits Chapter-4: Transformer Chapter-5: Three Phase Circuits Chapter-6: Electrical Generator and Motor Chapter- 7: Switchgear, Protection & Earthing System Chapter- 8: Electricity Usage Monitors, Power Factor Correction and Basics of Battery & Its applications

The book Basic Electrical Engineering: Principles, Designs & Applications is written to cater to the needs of the undergraduate courses in the discipline of Electronics & Communication Engineering, Computer Science Engineering, Information Technology, Electronics & Instrumentation Engineering, Electrical & Electronics Engineering and postgraduate students specializing in Electronics. It will also serve as reference material for engineers employed in industry. The fundamental concepts and principles behind of Transformer, Three Phase Circuits and Electrical Generator and Motor are explained in a simple, easy- to- understand manner. Each Chapter of book gives the design of Electrical Engineering that can be done by students of B.E./B.Tech/ M/Tech. level.

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- *Comprehensive Coverage of Transformer, Three Phase Circuits and Electrical Generator and Motor.
- *Detailed coverage of Switchgear, Protection & Earthing System, Electricity Usage Monitors, Power Factor Correction and Basics of Battery & Its applications.
- *Each chapter contains a large number of solved example or objective type's problem which will help the students in problem solving and designing of Electrical Engineering.
- *Clear perception of the various problems with a large number of neat, well drawn and illustrative diagrams.
- *Simple Language, easy- to- understand manner.

I do hope

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that the text book in the present form will meet the requirement of the students doing graduation in Electronics & Communication Engineering, Computer Science Engineering, Information Technology, Electronics & Instrumentation Engineering and Electrical & Electronics Engineering. I will appreciate any suggestions from students and faculty members alike so that we can strive to make the text book more useful in the edition to come.

The branch of engineering which focuses on the practical use of electricity, and studies the designing and maintenance of electrical devices is known as electrical engineering. It has a number of subdisciplines like instrumentation, electronics, telecommunication, signal processing, etc. This book outlines the processes and applications of electrical and electronics engineering in detail. Coherent flow of topics, student-friendly language and extensive use of examples make this book an invaluable source of knowledge. It aims to serve as a resource guide for students and experts alike and contribute to the growth of the discipline.

The CRC Principles and Applications in Engineering series is a library of convenient, economical references sharply focused on particular engineering topics and subspecialties. Each volume in the series comprises chapters carefully selected from CRC's bestselling handbooks, logically organized for optimum convenience, and thoughtfully priced to fit

Engineering Principles for Electrical Technicians serves as an introduction to basic engineering principles. This book discusses several topics, including rectifier equipment, pole systems, capacitors, electrical energy, and operating torque. Organized into 23 chapters, this

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book begins with an overview of the different applications of forces, including gravitational, friction, accelerating, shear, tensile, and compressive force. This text then defines the center of gravity as the point through which the resultant weight acts in whatever position the body is placed. Other chapters consider the efficiency, velocity, and mechanical advantage of simple machines. This book discusses as well the value of the factor of safety that depends on the material being used and the circumstances under which the material will work. The final chapter deals with thermionic emission that is concerned with the production of charged particles at a heated surface. This book is a valuable resource for electrical, mechanical, and telecommunications technicians.

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