

## Electrical Engineering Principles And Applications 5th Edition

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Rizzoni provides a solid overview of the electrical engineering discipline that is especially geared toward the many non-electrical engineering students who take this course. The hallmark feature of the text is its liberal use of practical applications to illustrate important principles. (Midwest).

For students just beginning their study of electricity. No previous formal training in the subject is assumed.

This 2-volumes set contains selected and peer-review papers in the subject areas of engineering thermo physics, applied thermal engineering, power machinery and engineering, fluid engineering and machinery, HVAC, air conditioning and refrigeration, power system and automation, high voltage and insulation technology, motor and electrical, electrical engineering principles and applications, power electronics and power drives, smart grid technologies, power system management.

Electrical Engineering Principles and Applications, Global Edition

Electrical engineering is the engineering discipline which encompasses the use of electronics, electricity and electromagnetism for driving innovations. It is divided into other significant sub-disciplines such as power engineering, electronics, computer engineering, signal processing, microelectronics, etc. Power engineering is concerned with the production, transmission and distribution of electricity. It also deals with the design of electric generators, transformers, electric motors, etc. Electronic circuits are designed using capacitors, resistors, inductors, transistors and diodes to achieve a particular function. The design and testing of such circuits is under the scope of electronic engineering. Signal processing deals with the manipulation and analysis of signals. It has applications in communications, control, broadcast engineering, radar, power electronics, etc. This book covers in detail some existent theories and innovative concepts revolving around electrical engineering. The various sub-fields of this discipline along with technological progress that have future implications are glanced at in this book. It is a vital tool for all researching or studying electrical engineering as it gives incredible insights into emerging trends. CD-ROMs contains: 2 CDs, "one contains the Student Edition of LabView 7 Express, and the other contains OrCAD Lite 9.2."

PRINCIPLES AND APPLICATIONS OF ELECTRICAL ENGINEERING covers the fundamentals and most important topics of dc circuits, ac circuits, basic electronics, dc machine, ac machine and power system components. All the circuit elements and electronic devices are represented by the mathematical equations. In addition, the working principles of all the machines and devices are discussed and the corresponding equations have been developed from the basic laws.

For undergraduate introductory or survey courses in electrical engineering. ELECTRICAL ENGINEERING: PRINCIPLES AND APPLICATIONS, 5/e 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. Circuit analysis, digital systems, electronics, and electromechanics are covered. A wide variety of pedagogical features stimulate student interest and engender awareness of the material's relevance to their chosen profession.

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Giorgio Rizzoni and James Kearns 6th edition provides a solid overview of the electrical engineering discipline that is especially geared toward the many non-electrical engineering students who take this course. The hallmark feature of the text is its liberal use of practical applications to illustrate important principles. The applications come from every field of engineering and feature exciting technologies such as Ohio State's world-record setting electric car. The appeal to non-EE's is further heightened by such special features as the book's Focus on Measurement sections, Focus on Methodology sections, and Make the Connection sidebars. McGraw-Hill is also proud to offer Connect with the sixth edition of Rizzoni and Kearns, Principles and Applications of Electrical Engineering. Connect is the only integrated learning system that empowers students by continuously adapting to deliver precisely what they need, when they need it, how they need it, so that your class time is more engaging and effective. Rizzoni and Kearns Principles and Applications of Electrical Engineering, sixth edition, includes the power of McGraw-Hill's LearnSmart--a proven adaptive learning program that helps students learn faster, study more efficiently, and retain more knowledge for greater success. LearnSmart is included in ConnectPlus.

Offers exceptional breadth of coverage without sacrificing depth and does not restrict itself solely to theory at the expense of practical applications, which are emphasised throughout. Suitable for HND and undergraduate students, the coverage and approach is relevant for specialist and non-specialist engineers. Important topics include electromagnetic compatibility in view of recent EU legislation. Solutions to Problems book available to bona fide lecturers.

Electrical engineering is a domain of engineering that deals with the study, development, and applications of electrical devices and systems. It involves the designing, development, testing and supervision of deployment of varied electrical systems and electronic devices. Some common tasks include the lighting and wiring of buildings, electrical control of industrial machinery, designing telecommunication systems, etc. The principles of physics and mathematics are fundamental to the science of electrical engineering. Some of the diverse fields encompassed within this discipline include systems engineering, telecommunications, computer engineering, signal processing, electronics, etc. Studies and research in electrical engineering have contributed to the development of a wide range of technologies. The topics covered in this extensive book deal with the core aspects of electrical engineering. It aims to present researches that have transformed this discipline and aided its advancement. Scientists and students actively engaged in this field will find this book full of crucial and unexplored concepts.

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Rizzoni (mechanical engineering, Ohio State University) presents the principles of electrical, electronic, and electromechanical engineering to non-electrical engineering students. The third edition has been reorganized, and adds a chapter on electrical communications. The CD-ROM includes computer-aided example solutions and a demo copy of Electronics Workbench.

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