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Electric Machinery and Transformers. 3rd ed. New. York: Oxford University Press. Citations (0) References (8) ResearchGate has not been able to resolve any citations for this publication.

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For this revision of their bestselling junior- and senior-level text, Guru and Hizioglu have incorporated eleven years of cutting-edge developments in the field since Electric Machinery and Transformers was first published. Completely re-written, the new Second Edition also incorporates suggestions from students and instructors who have used the First Edition, making it the best text available for junior- and senior-level courses in electric machines. The new edition features a wealth of new and improved problems and examples, designed to complement the authors' overall goal of encouraging intuitive reasoning rather than rote memorization of material. Chapter 3, which presents the conversion of energy, now includes: analysis of magnetically coupled coils, induced emf in a coil rotating in a uniform magnetic field, induced emf in a coil rotating in a time-varying magnetic field, and the concept of the revolving field. All problems and examples have been rigorously tested using Mathcad.



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This is a revision of Guru/Hiziroglu: *Electric Machinery and Transformers*, 2/E. The text is designed for the standard third or fourth year (junior/senior) course in electrical engineering commonly called electric machinery or electromechanical energy conversion. This text discusses the principles behind building the primary infrastructure for the generation of electricity (such as hydroelectric dams, turbines, etc.) that supplies the energy needs of people throughout the world. In addition to power generation, the book covers the basics of various types of electric motors, from large electric train motors, to those in hair dryers and smaller devices. The largest markets for a book such as this will be found in countries with developing infrastructures. The text is best known for its accuracy, pedagogy, and clear writing style. This revision should make *Electric Machinery and Transformers* the most up-to-date text on the market. *Electric Machinery and Transformers* continues its strong pedagogical tradition with a wealth of examples, new exercises, review questions, and effective chapter summaries. *Electric Machinery and Transformers* begins with a review of the basics of circuit theory and electromagnetics. Chapter 3 begins the heart of the course with the principles of electromechanical energy conversion; Chapter 4 covers transformers; Chapters 5 & 6 cover direct current generators and motors; Chapters 7 & 8 cover synchronous generators and motors. Chapters 9 and 10 round out the motors coverage with an introduction to polyphase induction motors and single-phase motors. Finally, Chapter 11 deals with dynamics of electric machines and Chapter 12 covers

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special purpose machines. This revised second edition features updated examples for modern applications, new problems, and additional material on power electronics. An instructor's manual will accompany the main text and will be available free to adopters.

"With new examples and the incorporation of MATLAB problems, the fourth edition gives comprehensive coverage of topics not found in any other texts." (Midwest).

Written for future electricians, ELECTRICAL TRANSFORMERS AND ROTATING MACHINES, 4e delivers comprehensive coverage reflecting real-world practice. It includes expansive coverage of magnetic measurements, exponential curves, control transformers, transformer nameplates, transformer sizing calculations, transformer installation, three-phase variable autotransformers, and more. The Fourth Edition is also completely up to date with changes from the NEC 2014 code. In addition, hands-on experiments are integrated throughout. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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The HVDC Light[trademark] method of transmitting electric power. Introduces students to an important new way of carrying power to remote locations. Revised, reformatted Instructor's Manual. Provides instructors with a tool that is much easier to read. Clear, practical approach.

The basic theory, principle of operation and characteristics of transformers, three-phase induction motors, single-phase induction motors, synchronous machines and dc machines are dealt with in Appendices to provide the background for the design of these machines.

This comprehensive, up-to-date introduction to Electrical Machines is designed to meet the needs of undergraduate electrical engineering students. It presents the essential principles of rotating machines and transformers. The emphasis is on the performance, though the book also introduces the salient features of electrical machine design. The book provides accessible, student-friendly coverage of dc machines, transformers, three-phase induction motor, single-phase induction motor, fractional horsepower motors, and synchronous machines. The clear writing style of the book enhanced by illustrative figures and simplified explanations of the fundamentals, makes it an ideal text for gaining a thorough understanding of the subject of electrical machines. Key Features Include: •Detailed coverage of the construction of electrical machines. •Lucid explanations of the principles of operation of electrical machines. •Methods of testing of electrical machines.

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- Performance calculations of electrical machines.
- Wealth of diverse solved examples in each chapter to illustrate the application of theory to practical problems.
- Salient features of design of electrical machines.
- Objective type questions to help students prepare for competitive exams.

Offers key concepts of electrical machines embedded with solved examples, review questions, illustrations and open book questions.

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