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Georgia Plant Ultimate Beginners
Guide to Using Electric Motors for
Makers and DIY Projects; #068
How to Make a Go kart / Electric
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Motor Basics Rewinding a Large
Motor at KOFFLER Run a 220V
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DC Motors explained - BLDC Fan
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Motor: 032 Best Guidebook for
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Electrical Engineering

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This problem-oriented book provides solutions to the common problems in two major areas of Electrical Engineering discipline such as electric machines and electric drives (with power electronics linking them) under a single cover. It serves as a supplement to textbooks on the subject. The book includes as many as 163 well-graded solved problems, covering topics such as transformer, dc machine, ac machines, induction (motor) and synchronous types, special motors, power electronics and ...

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2 Electric Machines and Electric
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turns is low, with the current and
hence, conductor (copper) cross-
sectional area being large. The
second winding is the high voltage
(HV) one, next to the LV winding.

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Electric Machines And Electric

Drives Book Summary: This

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drives (with power electronics

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reduced maintenance, and greater
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dedicated modelling tools for design purposes (research and teaching activities) as well as advanced multi-physics 2D and 3D modelling of electric machines and associated devices/test rigs.

Power Electronics, Machines and Drives

Electric machines have a ubiquitous presence in our modern daily lives, from the generators that supply electricity to motors of all sizes that power countless applications. Providing a balanced treatment of the subject, *Electric Machines and Drives: Principles, Control, Modeling, and Simulation* takes a ground-up approach that emphasizes fundamental principles. The author carefully deploys ...

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Electric Machines and Drives:
Principles, Control ...

In electrical engineering, electric machine is a general term for machines using electromagnetic forces, such as electric motors, electric generators, and others. They are electromechanical energy converters: an electric motor converts electricity to mechanical power while an electric generator converts mechanical power to electricity. The moving parts in a machine can be rotating or linear. Besides motors and generators, a third category often included is transformers, which although they do no

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Electric machine - Wikipedia
for converting electric power into mechanical power. Electric drive is therefore defined as: a form of machine equipment designed to convert electric energy into mechanical energy and provide electric control of this process. In view of this, fundamental elements of an electric drive are the electric motor, transmission system and electrical control.

ELECTRIC - KopyKitab
electric machines and drives: a first course This book focuses on Electric Machines and Drives as one of the topics in an integrated Electric Energy Systems curriculum. It follows a top-down, systems-level approach to

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Highlight interrelationships between the sub-fields within this curriculum, and is intended to cover both the fundamentals and practical design in a single-semester course.

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First Course PDF

Chinese car maker MG has announced the new MG ZS EV will be priced at \$43,990 drive-away. This is actually cheaper than the \$46,490 charged for pre-orders earlier this year.

MG ZS EV is Australia ' s cheapest electric car

The GT Electric is based on the Alfa Romeo GT, a car also known among Alfa Romeo fans as 105 and 115 Series. Created over a shortened Giulia body, it was built from 1963 until 1977.

This book provides a comprehensive introduction to the

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fundamental concepts of electric drives and is eminently suited as a textbook for B.E./B.Tech., AMIE and diploma courses in electrical engineering. It can also be used most effectively by all those preparing for GATE and UPSC competitive examinations, as well as by practising engineers. The topics, which range from principles and techniques to industrial applications, include characteristic features of drives, methods of braking and speed control, electromagnetic and solid state control of motors, motor ratings, transients in drive systems, and operation of stepper motors.

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Electrical Machines is an ideal text for students who look to gain a current and clear understanding of the subject as all theories and concepts are explained with lucidity and clarity. Succinctly divided in 14 chapters, the book delves into important concepts of the subject which include Armature Reaction and Commutation, Single-phase Motors, Three-phase Induction motors, Synchronous Motors, Transformers and Alternators with the help of numerous figures and supporting chapter-end questions for retention.

This book covers the complete syllabi prescribed for undergraduate courses in electrical, electronics, mechanical

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and instrumentation engineering offered by various Indian universities. The objective of this text is to provide thorough knowledge in the emerging field of special electrical machines. It discusses the stepper motor, switched reluctance motor, permanent magnet dc and ac motors, brushless dc motors, single phase special electric motors, servomotors, linear electric machines and permanent magnet axial flux machines. Key Features • Chapter on permanent magnet axial flux machines (not available in other Indian authors' books) • Numerous worked-out examples • Based on classroom tested materials • Simplified mathematical analysis Besides undergraduate students, the book

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will also be useful to the postgraduate students specialising in drives and control, power electronics, control systems and mechatronics.

The importance of various electrical machines is well known in the various engineering fields. The book provides comprehensive coverage of the synchronous generators (alternators), synchronous motors, three phase and single phase induction motors and various special machines. The book is structured to cover the key aspects of the course Electrical Machines - II. The book starts with the explanation of basics of synchronous generators including construction, winding details and e.m.f. equation. The

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Book then explains the concept of armature reaction, phasor diagrams, regulation and various methods of finding the regulation of alternator. Stepwise explanation and simple techniques used to elaborate these methods is the feature of this book. The book further explains the concept of synchronization of alternators, two reaction theory and parallel operation of alternators. 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 and applications. The book further explains the three phase induction motors in detail. It includes the construction, working, effect of

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slip, torque equation, torque ratios, torque-slip characteristics, losses, power flow, equivalent circuit, effect of harmonics on the performance and applications. This chapter includes the discussion of induction generator and synchronous induction motor. The detailed discussion of circle diagram is also included in the book. The book teaches the various starting methods, speed control methods and electrical braking methods of three phase induction motors. Finally, the book gives the explanation of various single phase induction motors and special machines such as reluctance motor, hysteresis motor, repulsion motor, servomotors and stepper motors. The discussion of magnetic

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levitation is also incorporated in the book. 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.

The importance of electric motors is well known in the various engineering fields. The book provides comprehensive coverage of the various types of electric

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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 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

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flow, equivalent circuit, effect of harmonics on the performance, circle diagram and applications. This 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, universal motor, a.c. servomotor, linear

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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.

This comprehensive, up-to-date introduction to Electrical Machines is designed to meet the needs of undergraduate electrical engineering students. It presents

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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

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machines. • Lucid explanations of the principles of operation of electrical machines. • Methods of testing of electrical machines. • 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.

The basic theory, principle of operation and characteristics of transformers, three-phase induction motors, single-phase induction motors, synchronous machines and dc machines are

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dealt with in Appendices to
provide the background for the
design of these machines.

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