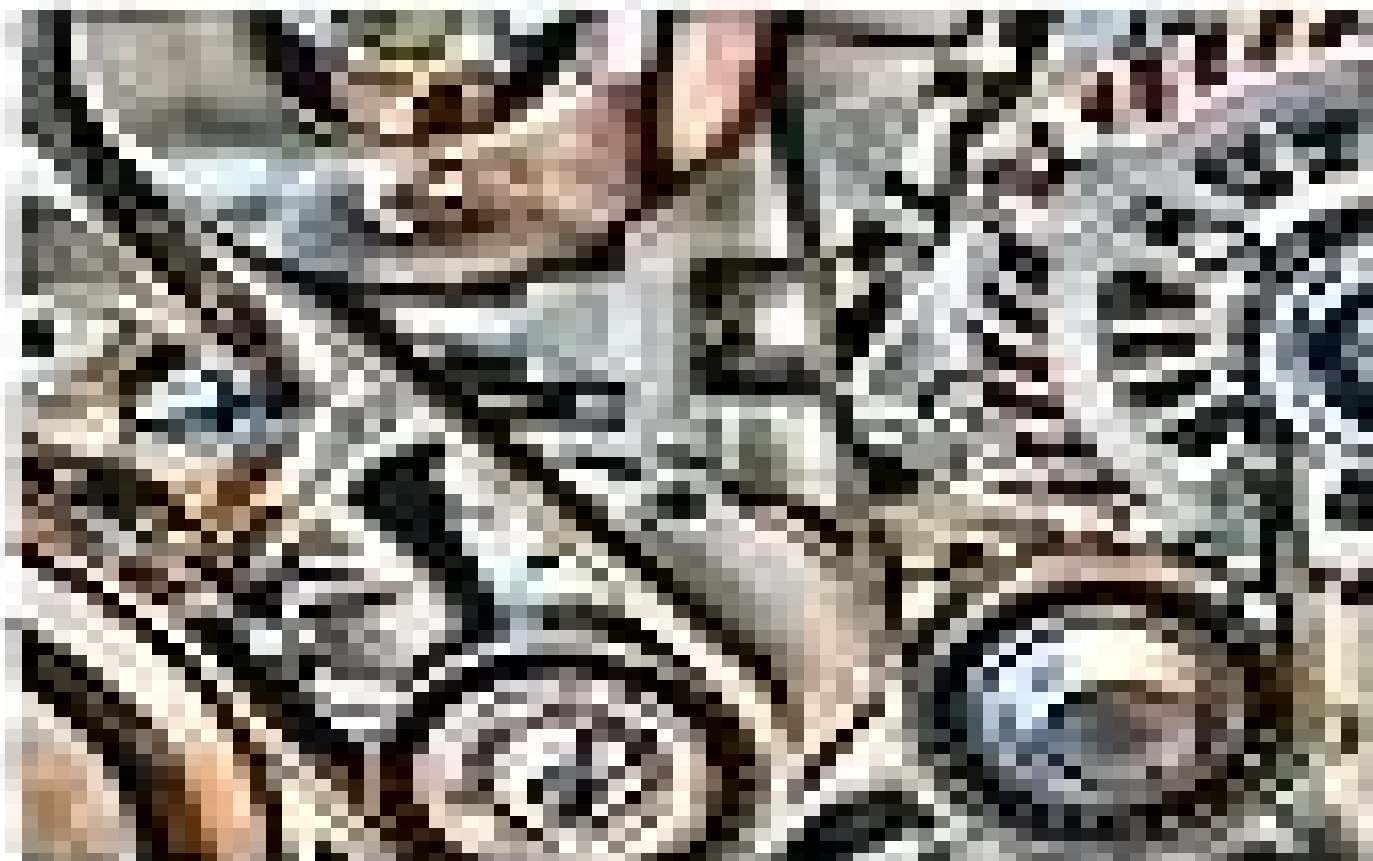


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Motors For Makers A Guide To Steppers Servos And Other Electrical Machines

Alessandro Serpi, Mario Porru



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Motors for Makers Matthew Scarpino, 2015-11-26 The First Maker Friendly Guide to Electric Motors Makers can do amazing things with motors Yes they re more complicated than some other circuit elements but with this book you can completely master them Once you do incredible new projects become possible Unlike other books *Motors for Makers* is 100% focused on what you can do Not theory Making First Matthew Scarpino explains how electric motors work and what you need to know about each major type stepper servo induction and linear motors Next he presents detailed instructions and working code for interfacing with and controlling servomotors with Arduino Mega Raspberry Pi and BeagleBone Black All source code and design files are available for you to download from motorsformakers.com From start to finish you ll learn through practical examples crystal clear explanations and photos If you ve ever dreamed of what you could do with electric motors stop dreaming and start making Understand why electric motors are so versatile and how they work Choose the right motor for any project Build the circuits needed to control each type of motor Program motor control with Arduino Mega Raspberry Pi or BeagleBone Black Use gearmotors to get the right amount of torque Use linear motors to improve speed and precision Design a fully functional electronic speed control ESC circuit Design your own quadcopter Discover how electric motors work in modern electric vehicles with a fascinating inside look at Tesla s patents for motor design and control *Rapidly Solidified Neodymium-Iron-Boron Permanent Magnets* John J. Croat, 2017-10-24

Rapidly Solidified Neodymium Iron Boron Permanent Magnets details the basic properties of melt spun NdFeB materials and the entire manufacturing process for rapidly solidified NdFeB permanent magnets It covers the manufacturing process from the commercial production of the melt spun or rapidly solidified powder to the production and properties of both isotropic bonded Nd and hot deformed anisotropic NdFeB magnets In addition the book discusses the development and history of bonded rare earth transition metal magnets and the discovery of the NdFeB compound also covering melt spun NdFeB alloys and detailing the magnetization process and spring exchange theory The book goes over the production of melt spinning development the operation of a melt spinner the processing of melt spun powder commercial grades of NdFeB magnetic powder and gas atomized NdFeB magnetic powders Lastly the book touches on the major application and design advantages of bonded Nd Magnets Features a unique perspective as the author is not only the inventor of NdFeB magnetic powder but also played a key role in developing many of the technologies covered Provides a comprehensive look at the history fundamental properties production processes

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conventional and brushless D C induction motors and servo drives providing readers with the knowledge to select the right technology for a given job The third edition includes additional diagrams and worked examples throughout New topics include digital interfacing and control of drives direct torque control of induction motors and current fed operation in DC drives The material on brushless servomotors has also been expanded Austin Hughes approach using a minimum of maths has established *Electric Motors and Drives* as a leading guide for electrical engineers and mechanical engineers and the key to a complex subject for a wider readership including technicians managers and students Acquire knowledge of and understanding of the capabilities and limitations of motors and drives without struggling through unnecessary maths and theory Updated material on the latest and most widely used modern motors and drives including brushless servomotors New edition includes additional diagrams and worked examples throughout

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Handbook of Electric Motors Hamid A. Toliyat, Gerald B. Kliman, 2018-10-03 Presenting current issues in electric motor design installation application and performance this second edition serves as the most authoritative and reliable guide to electric motor utilization and assessment in the commercial and industrial sectors Covering topics ranging from motor energy and efficiency to computer aided design and equipment selection this reference assists professionals in all aspects of electric motor maintenance repair and optimization It has been expanded by more than 40 percent to explore the most influential technologies in the field including electronic controls superconducting generators recent analytical tools new computing capabilities and special purpose motors

Electric Motors Source Wikipedia, 2013-09 Please note that the content of this book primarily consists of articles available from Wikipedia or other free sources online Pages 122 Chapters Electric motor Linear motor Stepper motor Doubly fed electric machine Variable frequency drive Brushed DC electric motor Inverter Induction motor Commutator Brushless DC electric motor Motor controller Premium efficiency Premium efficiency motors Adjustable speed drive Synchronous motor Fleming s left hand rule for motors Bipolar electric motor Split phase electric power Traction motor Direct torque control Switched reluctance motor Drum Motor Mouse mill motor Ultrasonic motor Motor soft starter The Energy Machine of Joseph Newman Electrically powered spacecraft propulsion Electronic speed control Piezoelectric motor Synchronous condenser Superconducting electric machine Fractional horsepower motor Adams motor Repulsion motor Braking chopper Direct on line starter Motor capacitor Homopolar motor Electric Motor Education

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Kirtley,1998-07-21 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product From portable CD drivers to heavy industry behemoths all the essential facts about electric motors in one comprehensive reference It thoroughly covers updated tractionapplications the latest on solid state motor drive controllers electrical and mechanical parameters specifications shapes performance protection and every size of motor made from those usedin portable CDs to the motors required by heavy industry **A Technical and Commercial Guide to Stepper Motors** Electrical Research Association,1972

Electric Motors Uday A. Bakshi, Dr. Mayuresh V. Bakshi, 2020-11-01 The importance of electric motors is well known in the various engineering fields. The book provides comprehensive coverage of the various types of electric 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 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 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. *Stepping Motors* P. P. Acarnley, 2005* **Electric Motor Handbook** Brian John Chalmers, 1988 **Audel Small Electric Motors** Rex Miller, Mark Richard Miller, 1992 Small Electric Motors Second Edition is a unique book with almost no competition in its field. It has undergone a major revision adding coverage of motors now found in robots and small appliance controls such as stepper motors brushless DC motors pancake DC motors hysteresis motors reversing and unidirectional synchronous motors axial fan motors ironless rotor DC motors and more. Professionals as well as do it yourselfers who work with robotic and small electric motors and in machine shops will find this book invaluable.

All about Motors National Joint Apprenticeship Training Committee, 2005 A practical blend of theory diagrams graphs drawings and photos combine in this book to assist readers in developing a complete understanding of all types of electric motors generators and alternators. All About Motors comprehensively examines such concepts as magnetic and inductive theory characteristics of various types of motors and the speed control of AC and DC motors that provide the necessary background for a thorough understanding of rotating equipment. Basic concepts of rotation are skillfully applied to the complex theories of rotor phase angles and their effect on torque so technicians learn effective service and troubleshooting techniques as well as motor operations. The knowledge gained will give students a foundation to develop into journeymen.

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