



# Electric Machines

**Dieter Gerling**



## **Electric Machines:**

Electric Machines Steady-State Operation I. Boldea, 1990-05-01 With numerous chapter problems and worked out examples this book presents a general introduction to electric machines including their rating and certain economic considerations Using a tradition presentation the author includes a discussion of magnetic circuits and transformers conventional dc induction and synchronous machines He closes with coverage of dynamics of electromechanical systems and incremental motion electromechanical systems

Electric Machines Charles A. Gross, 2006-10-20 The two major broad applications of electrical energy are information processing and energy processing Hence it is no wonder that electric machines have occupied a large and revered space in the field of electrical engineering Such an important topic requires a careful approach and Charles A Gross Electric Machines offers the most balanced application oriented and modern perspective on electromagnetic machines available Written in a style that is both accessible and authoritative this book explores all aspects of electromagnetic mechanical EM machines Rather than viewing the EM machine in isolation the author treats the machine as part of an integrated system of source controller motor and load The discussion progresses systematically through basic machine physics and principles of operation to real world applications and relevant control issues for each type of machine presented Coverage ranges from DC induction and synchronous machines to specialized machines such as transformers translational machines and microelectromechanical systems MEMS Stimulating example applications include electric vehicles wind energy and vertical transportation Numerous example problems illustrate and reinforce the concepts discussed Along with appendices filled with unit conversions and background material Electric Machines is a succinct in depth and complete guide to understanding electric machines for novel applications

**Electric Machines and Drives** Shaahin Filizadeh, 2013-02-20 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 physical insight mathematical rigor and computer simulation to clearly and effectively present electric machines and drive systems Detailing the fundamental principles that govern electric machines and drives systems this book Describes the laws of induction and interaction and demonstrates their fundamental roles with numerous examples Explores dc machines and their principles of operation Discusses a simple dynamic model used to develop speed and torque control strategies Presents modeling steady state based drives and high performance drives for induction machines highlighting the underlying physics of the machine Includes coverage of modeling and high performance control of permanent magnet synchronous machines Highlights the elements of power electronics used in electric drive systems Examines simulation based optimal design and numerical simulation of dynamical systems Suitable for a one semester class at the senior undergraduate or a graduate level the text supplies

simulation cases that can be used as a base and can be supplemented through simulation assignments and small projects. It includes end of chapter problems designed to pick up on the points presented in chapters and develop them further or introduce additional aspects. The book provides an understanding of the fundamental laws of physics upon which electric machines operate, allowing students to master the mathematical skills that their modeling and analysis requires.

**Electric Machines** Ion Boldea, Lucian N. Tutelea, 2021-10-07. With its comprehensive coverage of the state of the art, this Second Edition introduces basic types of transformers and electric machines. Classifications and characterization, modeling and performance of power electric transformers, single and multiphase motors and generators, commercial machines, dc brush, induction, dc excited, synchronous, PM synchronous, reluctance synchronous, and some new ones, multiphase ac machines, switched reluctance machines with great potential for industry with rotary or linear motion are all treated in the book. The book covers in detail circuit modeling, characteristics and performance, characteristics under steady state, testing techniques and preliminary electromagnetic, thermic dimensioning with lots of solved numerical examples and special cases to illustrate new electric machines with strong industrialization potential. All formulae used to characterize parameters and performance may be safely used in industry for preliminary designs and have been applied in the book through numerical solved examples of industrial interest. Numerous computer simulation programs in MATLAB and Simulink that illustrate performance characteristics present in the chapters are included and many be used as homework to facilitate a deeper understanding of fundamental issues. This book is intended for a first semester course covering electric transformers, rotary and linear machines, steady state modeling and performance, computation, preliminary dimensioning and testing, standardized and innovative techniques. The textbook may be used by R D engineers in industry as all machine parameters and characteristics are calculated by ready to use industrial design mathematical expressions.

**Introduction to Modern Analysis of Electric Machines and Drives** Paul C. Krause, Thomas C. Krause, 2022-12-06. Introduction to Modern Analysis of Electric Machines and Drives. Comprehensive resource introducing magnetic circuits and rotating electric machinery including models and discussions of control techniques. Introduction to Modern Analysis of Electric Machines and Drives is written for the junior or senior student in Electrical Engineering and covers the essential topic of machine analysis for those interested in power systems or drives engineering. The analysis contained in the text is based on Tesla's rotating magnetic field and reference frame theory which comes from Tesla's work and is presented for the first time in an easy to understand format for the typical student. Since the stators of synchronous and induction machines are the same for analysis purposes they are analyzed just once. Only the rotors are different and therefore analyzed separately. This approach makes it possible to cover the analysis efficiently and concisely without repeating derivations. In fact the synchronous generator equations are obtained from the equivalent circuit which is obtained from work in other chapters without any derivation of equations which differentiates Introduction to Modern Analysis of Electric Machines and Drives from all other textbooks in this area. Topics

explored by the two highly qualified authors in Introduction to Modern Analysis of Electric Machines and Drives include Common analysis tools covering steady state phasor calculations stationary magnetically linear systems winding configurations and two and three phase stators Analysis of the symmetrical stator covering the change of variables in two and three phase transformations and more Symmetrical induction machines covering symmetrical two pole two phase rotor windings electromagnetic force and torque and p pole machines Direct current machines and drives covering commutation voltage and torque equations permanent magnet DC machines and DC drives Introduction to Modern Analysis of Electric Machines and Drives is appropriate as either a first or second course in the power and drives area Once the reader has covered the material in this book they will have a sufficient background to start advanced study in the power systems or drives areas

**Advancements in Electric Machines** J. F. Gieras, 2008-11-14 Traditionally electrical machines are classified into d c commutator brushed machines induction asynchronous machines and synchronous machines These three types of electrical machines are still regarded in many academic curricula as fundamental types despite that d c brushed machines except small machines have been gradually abandoned and PM brushless machines PMBM and switched reluctance machines SRM have been in mass production and use for at least two decades Recently new topologies of high torque density motors high speed motors integrated motor drives and special motors have been developed Progress in electric machines technology is stimulated by new materials new areas of applications impact of power electronics need for energy saving and new technological challenges The development of electric machines in the next few years will mostly be stimulated by computer hardware residential and public applications and transportation systems land sea and air At many Universities teaching and research strategy oriented towards electrical machinery is not up to date and has not been changed in some countries almost since the end of the WWII In spite of many excellent academic research achievements the academia industry collaboration and technology transfer are underestimated or quite often neglected Underestimation of the role of industry unfamiliarity with new trends and restraint from technology transfer results with time in lack of external financial support and drastic decline in the number of students interested in Power Electrical Engineering

**Modeling and High Performance Control of Electric Machines** John Chiasson, 2005-05-13 Modeling and High Performance Control of Electric Machines introduces you to both the modeling and control of electric machines The direct current DC machine and the alternating current AC machines induction PM synchronous and BLDC are all covered in detail The author emphasizes control techniques used for high performance applications specifically ones that require both rapid and precise control of position speed or torque You will discover how to derive mathematical models of the machines and how the resulting models can be used to design control algorithms that achieve high performance Graduate students studying power and control as well as practicing engineers in industry will find this a highly readable text on the operation modeling and control of electric machines An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley

editorial department Instructor Support materials are also available Email IAlne wiley com

**Theory and Design of Electric Machines** Frederick Creedy,1929      Electrical Machines Md. Abdus Salam,2025-05-07 Electrical Machines is essential for anyone in the engineering field as it provides comprehensive coverage of electrical machines and practical skills in analysis and simulation making it an invaluable resource for students educators and industry professionals alike This outstanding new volume covers the basics of electrical machines including analysis and simulation using Automation Studio and Multisim software Written by an expert in the field this is a must have for any mechanical engineer s library covering three phase power electromagnetic circuits transformers DC generators and DC motors three phase induction motors synchronous generators and motors single phase induction motors special motors controls and much more Not just for the practicing engineer this is a valuable reference work for the student teacher or other industry professional      *Electrical Machines* Dieter Gerling,2014-09-17 Electrical Machines and Drives play a vital role in industry with an ever increasing importance This fact necessitates the understanding of machine and drive principles by engineers of many different disciplines Therefore this book is intended to give a comprehensive deduction of these principles Special attention is given to the precise mathematical deduction of the necessary formulae to calculate machines and drives and to the discussion of simplifications if applied with the associated limits So the book shows how the different machine topologies can be deduced from general fundamentals and how they are linked This book addresses graduate students researchers and developers of Electrical Machines and Drives who are interested in getting knowledge about the principles of machine and drive operation and in detecting the mathematical and engineering specialties of the different machine and drive topologies together with their mutual links The detailed but compact mathematical deduction together with a distinct emphasis onto assumptions simplifications and the associated limits leads to a clear understanding of Electrical Machine and Drive topologies and characteristics      **Design of Electrical Machines** K. G. Upadhyay,2011-07      Electric Machinery and Drives Nabeel A. O. Demerdash,JiangBiao He,Hao Chen,2025-03-05 Comprehensive resource on the fundamentals of electric machinery and variable speed drives and their many conventional and emerging applications Electric Machinery and Drives An Electromagnetics Perspective provides advanced concepts of electrical machinery with control drives and emphasizes the necessity of integration of power electronics and control strategy when studying modern electrical machinery The text incorporates the fundamentals of electric machinery variable speed drives and motor controls with the scope of including both the introduction of detailed operating principles as well as the electromagnetic design and control details from scratch The authors start with the introduction of electric circuit notations and elementary concepts of electrical circuits power electronics magnetostatics magnetic circuits and fundamentals of electromechanical energy conversion Later the book elaborates on the operating principles of polyphase induction machines and synchronous machines as well as the associated scale and vector controls of these machines To aid in reader comprehension the text includes a solutions manual and

accompanying video animations Electric Machinery and Drives also contains information on Real and reactive power in single phase and balanced three phase circuits and devices using consumer system concepts and notations Forces and torques in simple magnetically linear and nonlinear multi excited electromechanical devices and systems Simplified T equivalent circuit model and its use in performance calculations of induction machines and associated torque slip speed characteristics Brush commutator and brushless DC machines and natural ABC frame and Park s two reaction DQO frame state space modeling of synchronous and induction machines Special machines including single phase induction machines switched reluctance machines and others Electric Machinery and Drives is an ideal learning resource in undergraduate or graduate level courses for all universities with electrical engineering programs across the world Additionally the text may be used as a fundamental reference by researchers and engineers in electrical mechanical automotive aerospace and automation engineering

Electric Machines for Smart Grids Applications Adel El-Shahat,2018-12-12 In this book highly qualified scientists present their recent research motivated by the importance of electric machines It addresses advanced studies for high speed electrical machine design mechanical design of rotors with surface mounted permanent magnets design of motor drive for brushless DC motor single phase motors for household applications battery electric propulsion systems for competition racing applications robust diagnosis by observer using the bond graph approach a DC motor simulator based on virtual instrumentation start up of a PID fuzzy logic embedded control system for the speed of a DC motor using LabVIEW advanced control of the permanent magnet synchronous motor and optimization of fuzzy logic controllers by particle swarm optimization to increase the lifetime in power electronic stages **Electric Machines and Transformers** S. A. Nasar,1984

Multiphase Hybrid Electric Machines Ahmad S. Al-Adsani,Omid Beik,2021-09-02 This book provides an insight into the design modeling control and application of multiphase hybrid permanent magnet machines for electrified powertrains in electric and hybrid electric vehicles The authors present an overview of electric and hybrid electric vehicles hybrid electric machine topologies hybrid permanent magnet HPM machine design multiphase hybrid machines operation of multiphase generators in series hybrid electric vehicles SHEV and machine hardware build up and testing Readers will gain an understanding of multiphase machine configuration their design control and recent applications along with the benefits they provide and learn general design steps prototyping and hardware build up processes of multiphase electric machines Multiphase Hybrid Electric Machines Applications for Electrified Powertrains will be a valuable reference for undergraduate and graduate students researchers and practicing engineers working on electric hybrid electric vehicles as well as electric machine applications in renewable energy systems specifically wind turbines HVAC systems robotics and aerospace industry

**Alternating Current Multi-Circuit Electric Machines** Valentin Asanbayev,2015-02-13 This book details an approach for realization of the field decomposition concept The book presents the methods as well as techniques and procedures for establishing electric machine circuit loops and determining their parameters The methods developed have been realized

using the models of machines with laminated and solid rotor having classical structure The use of such models are well recognized and simplifies practical implementation of the obtained results

**Fundamentals of Electric Machines: A Primer with MATLAB** Warsame Hassan Ali, Matthew N. O. Sadiku, Samir Abood, 2019-06-12 An electric machine is a device that converts mechanical energy into electrical energy or vice versa It can take the form of an electric generator electric motor or transformer Electric generators produce virtually all electric power we use all over the world Electric machine blends the three major areas of electrical engineering power control and power electronics This book presents the relation of power quantities for the machine as the current voltage power flow power losses and efficiency This book will provide a good understanding of the behavior and its drive beginning with the study of salient features of electrical dc and ac machines

**Electrical Machines with MATLAB®, Second Edition** Turan Gonen, 2011-11-16 Electrical Machines with MATLAB encapsulates the invaluable insight and experience that eminent instructor Turan Gonen has acquired in almost 40 years of teaching With simple versatile content that separates it from other texts on electrical machines this book is an ideal self study tool for advanced students in electrical and other areas of engineering In response to the often inadequate rushed coverage of fundamentals in most basic circuit analysis books and courses this resource is intelligently designed easy to read and packed with in depth information on crucial concepts Topics include three phase circuits power measurement in AC circuits magnetic circuits transformers and induction synchronous and direct current machines The book starts by reviewing more basic concepts with numerous examples to clarify their application It then explores new buzzword topics and developments in the area of electrical machine applications and electric power systems including Renewable energy Wind energy and related conversion Solar energy Energy storage The smart grid Using International Systems IS units throughout this cross disciplinary design guide delves into commonly used vocabulary and symbols associated with electrical machinery Several new appendices contain tools such as an extensive glossary to explain important terms Outlining a wide range of information and the many different ways to apply it this book is an invaluable multifunctional resource for students and professors as well as practicing professionals looking to refresh and update their knowledge

**Basics of Electrical Machines** Prof. D. K. Palwalia, Dr. U. K. Kalla, Dr. R. K. Kumawat, 2025-01-01 Electrical Machines & Drives P.

Hammond, 2013-10-22 Containing approximately 200 problems 100 worked the text covers a wide range of topics concerning electrical machines placing particular emphasis upon electrical machine drive applications The theory is concisely reviewed and focuses on features common to all machine types The problems are arranged in order of increasing levels of complexity and discussions of the solutions are included where appropriate to illustrate the engineering implications This second edition includes an important new chapter on mathematical and computer simulation of machine systems and revised discussions of unbalanced operation permanent magnet machines and universal motors New worked examples and tutorial problems have also been added



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