

Generalised Theory Of Electrical Machines By Ps Bimbhra Download

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this book presents a comprehensive exposition of the theory performance and analysis of electric machines transformers alongwith other machines including ac and dc synchronous 3 phase and single phase induction commutator special machines and solid state control have all been explained in a simple and friendly style a balance between the mathematical and the qualitative aspects has been kept throughout the book a large variety of solved examples are included to illustrate the basic concepts and techniques unsolved problems and objective questions have also been presented at the end of each chapter the third edition also includes wide band transformers phase groups of 3 phase transformers synchronous reactor and synchronous frequency changer speed control of 3 phase induction motor operation of 3 phase induction motor with unbalanced supply voltages additional solved and unsolved problems all these features make this book an ideal text for undergraduate electrical electronics and computer engineering students upsc and amie candidates would also find the book extremely useful

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 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

this is a single volume book on electrical machines that teaches the subject precisely and yet with amazing clarity the extent has been kept in control so that the entire subject can be covered by students within the limited time of the semesters thus they will not have to consult multiple books anymore the discussions of concepts include the modern trends used in industry like efficient transformers efficient induction motors dc drives and the problems related to them

the importance of various electrical machines is well known in the various engineering fields the book provides comprehensive coverage of the magnetic circuits magnetic materials single and three phase transformers and d c machines the book is structured to cover the key aspects of the course electrical machines i the book starts with the explanation of basics of magnetic circuits concepts of self and mutual inductances and important magnetic materials then it explains the fundamentals of single phase transformers including the construction phasor diagram equivalent circuit losses efficiency methods of cooling parallel operation and autotransformer the chapter on three phase transformer provides the detailed discussion of construction connections phasor groups parallel operation tap changing transformer and three winding transformer the various testing methods of transformers are also incorporated in the book the book further explains the concept of electromechanical energy conversion including the discussion of singly and multiple excited systems then the book covers all the details of d c generators including construction armature reaction commutation characteristics parallel operation and applications the book also includes the details of d c motors such as characteristics types of starters speed control methods electric braking and permanent magnet d c motors finally the book covers the various testing methods of d c machines including swinburne s test brake test retardation test and hopkinson s test 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 all the chapters are arranged in a proper sequence that permits each topic to build upon earlier studies the book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting

for over 15 years principles of 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

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

the text starts with basic functionality and the role of electrical machines in their typical applications the effort of applying coordinate transforms is justified by obtaining a more intuitive concise and easy to use model mathematics reduced to a necessary minimum priority is given to bringing up the system view and explaining the use and external characteristics of machines on their electrical and mechanical ports the aspects of machine design and construction are of secondary importance covering the most relevant concepts relating to machine size torque and power the book explains the losses and secondary effects outlining cases and conditions where some secondary phenomena are neglected while the goal of developing and using machine mathematical models equivalent circuits and mechanical characteristics persists through the book the focus is kept on physical insight of electromechanical conversion process design and construction of practical machines is discussed to the extent needed to understand the principles of operation power losses and cooling and the problems of power supply and control of electric machines details such as the slot shape and the disposition of permanent magnets are covered and their effects on the machine parameters and performance

a self contained comprehensive and unified treatment of electrical machines including consideration of their control characteristics in both conventional and semiconductor switched circuits this new edition has been expanded and updated to include material which reflects current thinking and practice all references have been updated to conform to the latest national bs and international iec recommendations and a new appendix has been added which deals more fully with the theory of permanent magnets recognising the growing importance of permanent magnet machines the text is so arranged that selections can be made from it to give a short course for non specialists while the book as a whole will prepare students for more advanced studies in power systems control systems electrical machine design and general industrial applications includes numerous worked examples and tutorial problems with answers

offers key concepts of electrical machines embedded with solved examples review questions illustrations and open book questions

this book includes my lecture notes for electrical machines course the book is divided to different learning parts part 1 apply basic physical concepts to explain the operation and solve problems related to electrical machines part 2 explain the principles underlying the performance of three phase electrical machines part 3 analyse operate and test three phase induction machines part 4 investigate the performance design operation and testing of the three phase synchronous machine part1 apply basic physical concepts to explain the operation and solve problems related to electrical machines describe the construction of simple magnetic circuits both with and without an air gap explain the basic laws which govern the electrical machine operation such as faraday s law ampere biot savart s law and lenz s law apply faraday s law of electromagnetic induction ampere biot savart s law and lenz s law to solve for induced voltage and currents in relation to simple magnetic circuits with movable parts illustrate the principle of the electromechanical energy conversion in magnetic circuits with movable parts part 2 explain the principles underlying the performance of three phase electrical machines compare and contrast concentric and distributed windings in three phase electrical machines identify the advantages of distributed windings applied to three phase machines explain how the pulsating and rotating magnetic fields are produced in distributed windings calculate the synchronous speed of a machine based on its number of poles and frequency of the supply describe the process of torque production in multi phase machines part 3 analyse operate and test three phase induction machines calculate the slip of an induction machine given the operating and synchronous speeds calculate and compare between different torques of a three phase induction machine such as the locked rotor or starting torque pull up torque breakdown torque full load torque or braking torque develop and manipulate the equivalent circuit model for the three phase induction machine analyse and test experimentally the torque speed and current speed characteristics of

induction machines and discuss the effects of varying such motor parameters as rotor resistance supply voltage and supply frequency on motor torque speed characteristics perform no load and blocked rotor tests in order to determine the equivalent circuit parameters of an induction machine explore various techniques to start an induction motor identify the applications of the three phase induction machines in industry and utility classify the insulations implemented in electrical machines windings and identify the factors affecting them part4 investigate the performance design operation and testing of the three phase synchronous machine describe the construction of three phase synchronous machines particularly the rotor stator windings and the rotor saliency develop and manipulate an equivalent circuit model for the three phase synchronous machine sketch the phasor diagram of a non salient poles synchronous machine operating at various modes operation such as no load operation motor operation and generator operation investigate the influence of the rotor saliency on machine performance perform open and short circuit tests in order to determine the equivalent circuit parameters of a synchronous machine identify the applications of the three phase synchronous machines in industry and utility list and explain the conditions of parallel operation of a group of synchronous generators evaluate the performance of the synchronous condenser and describe the power flow control between a synchronous condenser and the utility in both modes over and under excited explain the principles of controlling the output voltage and frequency of a synchronous generator

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

essentials of electrical machines offers a comprehensive exploration of the principles operation and applications of electrical machines tailored for undergraduate students with a focus on clarity and accessibility this book is an indispensable resource for students delving into electrical engineering we cover fundamental concepts such as electromechanical energy conversion magnetic circuits and transformer theory providing a solid foundation for understanding various electrical machines including dc machines synchronous machines and induction machines through clear explanations illustrative examples and practical applications students gain a deep understanding of electrical machine behavior in real world scenarios designed to cater to diverse learning styles the book features engaging exercises thought provoking problems and interactive simulations to reinforce concepts and promote active learning whether pursuing a degree in electrical engineering or related fields readers will find this book to be an invaluable companion in mastering electrical machines with its emphasis on practical relevance and conceptual clarity essentials of electrical machines equips students with the knowledge and skills necessary to tackle challenges in electrical engineering

general airgap field modulation theory for electrical machines introducing a new theory for electrical machines air gap magnetic field modulation phenomena have been

widely observed in electrical machines this book serves as the first english language overview of these phenomena as well as developing systematically for the first time a general theory by which to understand and research them this theory not only serves to unify analysis of disparate electrical machines from conventional dc machines induction machines and synchronous machines to unconventional flux switching permanent magnet machines vernier machines doubly fed brushless machines etc but also paves the way towards the creation of new electrical machine topologies general airgap field modulation theory for electrical machines includes both overviews of key concepts in electrical machine engineering and in depth specialized analysis of the novel theory itself it works through the applications of the developed theory before proceeding to both qualitative analysis of the theory's operating principles and quantitative analysis of its parameters readers will also find the collective experience of four award winning authors with long records of international scholarship on this subject three separate chapters covering the principal applications of the theory with detailed examples discussion of potential innovations made possible by this theory general airgap field modulation theory for electrical machines is an essential introduction to this theory for postgraduates researchers and electrical engineers

in one complete volume this essential reference presents an in depth overview of the theoretical principles and techniques of electrical machine design this book enables you to design rotating electrical machines with its detailed step by step approach to machine design and thorough treatment of all existing and emerging technologies in this field senior electrical engineering students and postgraduates as well as machine designers will find this book invaluable in depth it presents the following machine type definitions different synchronous asynchronous dc and doubly salient reluctance machines an analysis of types of construction external pole internal pole and radial flux machines the properties of rotating electrical machines including the insulation and heat removal options responding to the need for an up to date reference on electrical machine design this book includes exercises with methods for tackling and solutions to real design problems a supplementary website hosts two machine design examples created with mathcad rotor surface magnet permanent magnet machine and squirrel cage induction machine calculations classroom tested material and numerous graphs are features that further make this book an excellent manual and reference to the topic

presents applied theory and advanced simulation techniques for electric machines and drives this book combines the knowledge of experts from both academia and the software industry to present theories of multiphysics simulation by design for electrical machines power electronics and drives the comprehensive design approach described within supports new applications required by technologies sustaining high drive efficiency the highlighted framework considers the electric machine at the heart of the entire electric drive the book also emphasizes the simulation by design concept a concept that frames the entire highlighted design methodology which is described and illustrated by various advanced simulation technologies multiphysics simulation by design for electrical machines power electronics and drives begins with the basics of electrical machine design and manufacturing tolerances it also discusses fundamental aspects of the state of the art design process and includes examples from industrial practice it explains fem based analysis techniques for electrical machine design providing details on how it can be employed in ansys maxwell software in addition the book covers advanced magnetic material modeling capabilities employed in numerical computation thermal analysis automated optimization for electric machines and power electronics and drive systems this valuable resource delivers the multi physics know how based on practical electric machine design methodologies provides an extensive overview of electric machine design optimization and its integration with power electronics and drives incorporates case studies from industrial practice and research and development projects multiphysics simulation by design for electrical machines power electronics and drives is an incredibly helpful book for design engineers application and system engineers and technical professionals it will also benefit graduate engineering students with a strong interest in electric machines and drives

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 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 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 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

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