

Principles Of Electric Machines And Power Electronics

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principles of electrical machines provides a comprehensive discourse on the characteristics and working principles of various types of electrical machines starting with magnetic circuits which form an integral part of electrical machines the book goes on to cover transformers and the general principles of energy conversion the book then extensively discusses different types of electrical machines dc machines three phase induction machines and three phase synchronous machines single phase motors which are widely used in household and office appliances and special motors such as servomotors linear synchronous motors brushless dc motors switched reluctance motors synchro motors and stepper motors using a gradational approach the first few sections in each chapter are devoted to the basic principles of operation and later sections are devoted mostly to a more detailed study of the particular machine in addition to strengthening the organization of the contents this international

adaptation provides new and updated materials and is well supported by a plethora of new examples illustrations end of chapter problems and multiple choice questions

an accessible introduction to all important aspects of electric machines covering dc induction and synchronous machines also addresses modern techniques of control power electronics and applications exposition builds from first principles making this book accessible to a wide audience contains a large number of problems and worked examples

electrical machine is a device that can convert either mechanical energy to electrical energy generator or electrical energy to mechanical energy motor since any given electrical machine can convert power in either direction any machine can be used as either a generator or a motor the electric machines ems for high performance electrical power generation systems epgss play a significant role such as in the modern aerospace and military industries electrical drives play an important role as electromechanical energy converters a wide range of applications for example machine tools in manufacturing industries photocopies cd player electric windows in the car prosthetic hands and other medical devices some are obvious other not so until they fail it is critically important that the correct drive is matched to the application with due regard to its requirements with the recent developments in power semiconductors and microprocessors with signal processing capabilities the technology of the modern drive system has changed dramatically in recent years electric machines and power systems brings together innovative trends and practices related to the broad field of electromechanics electric machines and power systems it illustrates the induced enormous energy saving potential by using high efficiency motors furthermore the most important barriers to larger high efficiency motors utilization are identified and some incentives recommendations are given to overcome identified impediments the subject offers a practical approach to electric machines featuring explanations of fundamental principles examples of real world applications and attention to the fine details of design and operation it also focuses on modern control methods of induction machine drives such as vector and direct torque control the book also addresses sensorless control techniques modulation strategies parameter identification artificial intelligence operation under harsh or failure conditions and modelling of electric or magnetic quantities in electric machines

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