

Solution Of Electrical Machinery P S Bimbhra Khanna Publishers

Electrical Machines-I Fundamentals of Power Electronics Power Electronics Artificial Intelligence for Power Electronics Basics of Electrical Machines Electric Vehicle Propulsion Drives and Charging Systems Recent Trends In Applied Systems Research 1995 Power Electronics University of Roorkee Research Journal Handbook of Electrical Engineering Research Journal The World of Learning 2001 Journal of the Institution of Engineers (India). Surface Water Records of Georgia Bulletin of the Institution of Engineers (India). IETE Journal of Research Commonwealth Universities Yearbook Report of the Union Public Service Commission for the Period Th ng b o s ch m i P.S. Bimbhra, G.C. Garg S. Rama Reddy P. S. Bimbhra Ahteshamul Haque Prof. D. K. Palwalia Kundan Kumar S. C. Tripathy University of Roorkee Alan L. Sheldrake University of Roorkee Europa Publications Institution of Engineers (India) India. Union Public Service Commission

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this book is written so that it serves as a text book for b e b tech degree students in general and for the institutions where aicte model curriculum has been adopted topics covered in this book magnetic field and magnetic circuit electromagnetic force and torque d c machines d c machines motoring and generation salient features self contained self explanatory and simple to follow text numerous worked out examples well explained theory parts with illustrations exercises objective type question with answers at the end of each chapter

written in plain language fundamentals of power electronics sets forth the basic principles of power electronics starting with the various types of devices protection and series and parallel operation of silicon controlled rectifiers it details all the aspects of power electronics essential to building a strong foundation for the further study and practice of industrial or power electronics engineering the author devotes considerable attention to a wide variety of applications from ac and dc motors heating and welding to hvdc transmission and thyristor controlled electrical drives fundamentals of power electronics is filled with diagrams that clarify the concepts presented each

chapter includes sections containing numerous examples and short questions with answers an appendix furnishes a series of power electronics experiments that explore scr characteristics ujt firing circuits voltage and current commutation triac characteristics and the rc triggering scheme of scr

thorough review of how artificial intelligence can enhance the design control and optimization of power electronics systems artificial intelligence for power electronics provides a comprehensive overview of the intersection between artificial intelligence ai and the field of power electronics exploring how ai can revolutionize and enhance the design control and optimization of power electronics systems the book covers the fundamentals of ai the fundamentals of power electronics and the challenges the field faces in design to production and the solutions of these challenges through ai methods example solutions along with q a review sections are included throughout the text with coverage of both python and matlab some of the topics discussed in artificial intelligence for power electronics include supervised unsupervised and reinforcement machine learning and the role of data in training machine learning models techniques for ai data collection in power electronics and how to clean normalize and handle missing values of data optimization techniques such as particle swarm optimization and ant colony optimization detection techniques for identifying faults and anomalies and clustering algorithms to group similar operational behavior essential python libraries for machine learning and how to perform machine learning on a raspberry pi delivering an industry specific approach to ai applications artificial intelligence for power electronics is a helpful reference for undergraduate postgraduate and phd students in electrical electronic and computer engineering mechanical engineers and other industry professionals may also find it valuable

this book covers the introduction theory development and applications of hybrid and electric vehicles and their charging infrastructures it also discusses the real applications of power converters and electric drives to give the readers a flavour of how to design propulsion drives and fast charging systems for electric vehicles it further covers important topics such as static and dynamic wireless charging systems battery management and battery swapping systems for electric vehicles this book presents comprehensively different types of electric vehicles and their powertrain architecture highlights modern optimization techniques such as genetic algorithms simulated annealing particle swarm optimization and ant colony optimization discusses different charging methods such as wired and wireless for a variety of batteries including lead acid lithium ion and vanadium redox covers grid to vehicle vehicle to grid and vehicle to vehicle bidirectional power flow analysis showcases power 2x technologies such as power to ammonia power to chemicals power to fuel power to gas and power to hydrogen the text is primarily written for senior undergraduate and graduate students as well as academic researchers in the fields of electrical engineering electronics and communications engineering

power electronics is intended as an introduction to the basic theory and practice of modern power electronics and in particular with the application of power electronics theory for d c and a c motor control this book not only contains teaching material on physical principles of electronic devices but also the circuit applications of controlled rectifiers inverters d c choppers cycloconverters switch mode power supply along with practical aspects relating to application of power electronics

to d c motor and a c motor speed control this text is suitable for ug and postgraduate programmes in power electronics and drives in the disciplines of electrical engineering electronics and communication engineering and instrumentation and control engineering book jacket

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