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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

this book discusses key concepts challenges and potential solutions in connection with established and emerging topics in advanced computing renewable energy and network communications gathering edited papers presented at marc 2018 on july 19 2018 it will help researchers pursue and promote advanced research in the fields of electrical engineering communication computing and manufacturing

this textbook provides students with an overview of cyber physical microgrid networks and an in depth introduction to photovoltaics batteries flywheel supercapacitor micro turbines wind generation power electronic interfaces modeling and stability analysis of microgrids and cyber communication networks and security the text helps upper level undergraduate and graduate students gain a foundational understanding of microgrids and renewable energy and offers an introduction to the frontier of theoretical research and practical applications of cyber physical systems paving the way to uncover and understand the operational mechanism of cyber physical microgrids the book includes examples and test systems throughout for problem solving and will be an essential resource for students researchers and professionals in power engineering

laboratory manual for electrical machines 2nd edition includes four new experiments in electrical machines so that it can cater to the complete syllabus of undergraduate laboratory courses of electrical machines this book gives the basic information to the students with the machine phenomenon working principles and testing methods etc it also imparts real physical understanding of various types of electrical machines the main attraction of this laboratory manual is its power point presentation for all experiments this manual is meant for electrical engineering students of b e and b tech and polytechnics

today the graduate aptitude test in engineering gate is one of the prestigious toughest and recognized national level examinations for engineering students this book has been written by utilizing a couple of decade s experience of the authors in the teaching profession the

text is intended for the aspirants of gate examination it should also be equally useful for those who wish to crack the examinations of public sector units like drdo barc bhel dvc ntpc ongc sail isro gail nhpc pgcil iocl hal and many more public sector undertakings the book will also be useful for those who want to appear for ies examination it fosters the nomenclature of the chapters according to the textbooks for easy reference this book garners a gamut of all the topics related to the field of electrical engineering salient features of the book the subject has been presented chapter wise in a graded manner and has a detailed coverage of the gate syllabus as per the guidelines contains general aptitude verbal ability numerical aptitude and engineering mathematics includes chapter wise important questions as well as previous years gate questions with its solutions indepth explanation in lucid and understandable language adequate study materials including comprehensive theory to enhance learning ability more emphasis on fundamentals to crack the tricky problem during the examination important key points are provided for a quick recap and a sort of ready reckoner for the students before the examination step by step and simple problem solving technique enables the students to sharpen their problem solving skills for gate and other competitive examinations develops passion for this interesting and pulsating subject like electrical engineering provides companion cd containing previous 13 years solved gate question papers

in this work a developed model of brushless synchronous generator of wound rotor type is designed analyzed by fem practically applied and investigated a comparison of results with conventional machines is also performed the presented machine can be applied for multi pole wind hydro generators or double poles diesel engine generators it is self excited by residual magnetism and a connected capacitor it is also self regulated by making use of fluctuations at load or limited speed changes the generated voltage may last at extended speed range by arranging a generating system with variable capacitance by eliminating the permanent magnets or advanced manufacturing technology of rotor poles and without using extra rotating external dc exciters an efficient excitation field and an output of flat self compensated compound characteristic are obtained more the feature of damper windings is determined concerning the fact of environmental diminishing of elements in materials of permanent magnets and d c battery the presented novel machine is hence a good alternative and more economic from generators exist in the market beside it is safer and highly

recommended for power stability when connected to the grid

the book includes peer reviewed papers of the international conference on sustainable technology and advanced computing in electrical engineering icstace 2021 the main focus of the book is electrical engineering the conference aims to provide a global platform to the researchers for sharing and showcasing their discoveries findings innovations the book focuses on the areas related to sustainable development and includes research works from academicians and industry experts the book discusses new challenges and provides solutions at the interface of technology information complex systems and future research directions

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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