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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

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

this four volume handbook covers important concepts and tools used in the fields of financial econometrics mathematics statistics and machine learning econometric methods have been applied in asset pricing corporate finance international finance options and futures risk management and in stress testing for financial institutions this handbook discusses a variety of econometric methods including single equation multiple regression simultaneous equation regression and panel data analysis among others it also covers statistical distributions such as the binomial and log normal distributions in light of their applications to portfolio theory and asset management in addition to their use in research regarding options and futures contracts in both theory and methodology we need to rely upon mathematics which includes linear algebra geometry differential equations stochastic differential equation ito calculus optimization constrained optimization and others these forms of mathematics have been used to derive capital market line security market line capital asset pricing model option pricing model portfolio analysis and others in recent times an increased importance has been given to computer technology in financial

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brain imaging brings together the technology methodology research questions and approaches of a wide range of scientific fields including physics statistics computer science neuroscience biology and engineering thus methodological and technological advances that enable us to obtain measurements examine relationships across observations and link these data to neuroscientific hypotheses happen in a highly interdisciplinary environment the dynamic field of machine learning with its modern approach to data mining provides many relevant approaches for neuroscience and enables the exploration of open questions this state of the art survey offers a collection of papers from the workshop on machine learning and interpretation in neuroimaging mlini 2011 held at the 25th annual conference on neural information processing nips 2011 in the sierra nevada spain in december 2011 additionally invited speakers agreed to contribute reviews on various aspects of the field adding breadth and perspective to the volume the 32 revised papers were carefully selected from 48 submissions at the interface between machine learning and neuroimaging the papers aim at shedding some light on the state of the art in this interdisciplinary field they are organized in topical sections on coding and decoding neuroscience dynamics connectivity and probabilistic models and machine learning

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