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Finite Element Analysis of Electrical Machines Sheppard J. Salon, 2012-12-06 In Finite Element Analysis of Electrical Machines the author covers two dimensional analysis emphasizing the use of finite elements to perform the most common calculations required of machine designers and analysts The book explains what is inside a finite element program and how the finite element method can be used to determine the behavior of electrical machines The material is tutorial and includes several completely worked out examples The main illustrative examples are synchronous and induction machines The methods described have been used successfully in the design and analysis of most types of rotating and linear machines Audience A valuable reference source for academic researchers practitioners and designers of electrical machinery

Electric Energy Mohamed A. El-Sharkawi, 2015-09-15 The search for renewable energy and smart grids the societal impact of blackouts and the environmental impact of generating electricity along with the new ABET criteria continue to drive a renewed interest in electric energy as a core subject Keeping pace with these changes Electric Energy An Introduction Third Edition restructures the traditional introductory electric energy course to better meet the needs of electrical and mechanical engineering students Now in color this third edition of a bestselling textbook gives students a wider view of electric energy without sacrificing depth Coverage includes energy resources renewable energy power plants and their environmental impacts electric safety power quality power market blackouts and future power systems The book also makes the traditional topics of electromechanical conversion transformers power electronics and three phase systems more relevant to students Throughout it emphasizes issues that engineers encounter in their daily work with numerous examples drawn from real systems and real

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Mechanical Design of Electric Motors Wei Tong, 2014-04-28 Rapid increases in energy consumption and emphasis on environmental protection have posed challenges for the motor industry as has the design and manufacture of highly efficient reliable cost effective energy saving quiet precisely controlled and long lasting electric motors Suitable for motor designers engineers and manufacturers as well

Advanced DC/DC Converters Fang Lin Luo, Hong Ye, 2016-12-08 DC DC conversion techniques have undergone rapid development in recent decades With the pioneering work of authors Fang Lin Luo and Hong Ye DC DC converters have now been sorted into their six generations and by a rough count over 800 different topologies currently exist with more being developed each year *Advanced DC DC Converters Second Edition* offers a concise practical presentation of DC DC converters summarizes the spectrum of conversion technologies and presents new ideas and more than 200 new topologies Beginning with background material on DC DC conversion the book later discusses both voltage lift and super lift converters It then proceeds through each generation including the groundbreaking sixth generation converters developed by the authors that can be cascaded for high voltage transfer gain This new edition updates every chapter and offers three new chapters The introduction of the super lift technique is an outstanding achievement in DC DC conversion technology and the ultra lift technique and hybrid split capacitor inductor applied in Super Lift Luo Converters are introduced in Chapters 7 and 8 In Chapter 9 the authors have theoretically defined a new concept Energy Factor EF researched the relations between EF and the mathematical modelling for power DC DC converters and demonstrated the modeling method for two converters More than 320 figures 60 tables and 500 formulae allow the reader to more easily grasp the overall structure of advanced DC DC converters provide fast access to precise data and help them to quickly determine the values of their own circuit components

Modern Electric, Hybrid Electric, and Fuel Cell Vehicles Mehrdad Ehsani, Yimin Gao, Ali Emadi, 2017-12-19 Air pollution global warming and the steady decrease in petroleum resources continue to stimulate interest in the development of safe clean and highly efficient transportation Building on the foundation of the bestselling first edition *Modern Electric Hybrid Electric and Fuel Cell Vehicles Fundamentals Theory and Design Second Edition* updates and expands its detailed coverage of the vehicle technologies that offer the most promising solutions to these issues affecting the automotive industry Proven as a useful in depth resource and comprehensive reference for modern automotive systems engineers students and researchers this book speaks from the perspective of the overall drive train system and not just its individual components New to the second edition A case study appendix that breaks down the

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as new applications using doubly fed induction generators New methodologies such as the magnetization curve representation for induction generators Additional focus on renewable energy applications such as sea wind and hydropower systems Alternative Energy Systems provides the tools and expertise for advanced students and professionals in electrical mechanical civil and environmental engineering involved in the development of power plants **Canadiana** ,1991

Electric Machines Dionysios Aliprantis, Oleg Wasynczuk, 2022-08-11 Demystifies the operation of electric machines by bridging electromagnetic fields electric circuits numerical analysis and computer programming Ideal for graduates and senior undergraduates taking courses on all aspects of electric machine design and control and accompanied by downloadable Python code and instructor solutions *Polyphase Motors* Enrico Levi, 1984-02-06 Provides the general background for design of electrical motors by placing motor design in the context of the overall drive and its function and with a survey of the various electrical and mechanical components The design itself is addressed using an original approach based on first principles it begins with the design specifications expresses them in terms of electric and magnetic stresses establishes appropriate geometry and arrives at the dimensions Unconventional topologies are also discussed

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