

Finite Element Ysis Of Electrical Machines

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With countless electric motors being used in daily life, in everything from transportation and medical treatment to military operation and communication, unexpected failures can lead to the loss of valuable human life or a costly standstill in industry. To prevent this, it is important to precisely detect or continuously monitor the working condition of a motor. Electric Machines: Modeling, Condition Monitoring, and Fault Diagnosis reviews diagnosis technologies and provides an application guide for readers who want to research, develop, and implement a more effective fault diagnosis and condition monitoring scheme—thus improving safety and reliability in electric motor operation. It also supplies a solid foundation in the fundamentals of fault cause and effect. Combines Theoretical Analysis and Practical Application Written by experts in electrical engineering, the book approaches the fault diagnosis of electrical motors through the process of theoretical analysis and practical application. It begins by explaining how to analyze the fundamentals of machine failure using the winding functions method, the magnetic equivalent circuit method, and finite element analysis. It then examines how to implement fault diagnosis using techniques such as the motor current signature analysis (MCSA) method, frequency domain method, model-based techniques, and a pattern recognition scheme. Emphasizing the MCSA implementation method, the authors discuss robust signal processing techniques and the implementation of reference-frame-theory-based fault diagnosis for hybrid vehicles. Fault Modeling, Diagnosis, and Implementation in One Volume Based on years of research and development at the Electrical Machines & Power Electronics (EMPE) Laboratory at Texas A&M University, this book describes practical analysis and implementation strategies that readers can use in their work. It brings together, in one volume, the fundamentals of motor fault conditions, advanced fault modeling theory, fault diagnosis techniques, and low-cost DSP-based fault diagnosis implementation strategies.

Power Quality in Power Systems and Electrical Machines, Second Edition helps readers understand the causes and effects of power quality problems and provides techniques to mitigate these problems. Power quality is a measure of deviations in supply systems and their components, and affects all connected electrical and electronic equipment, including computers, TV monitors, and lighting. In this book analytical and measuring techniques are applied to power quality problems as they occur in central power stations and distributed generation such as alternative power systems. Provides theoretical and practical insight into power quality problems; most books available are either geared to theory or practice only Problems and solutions at the end of each chapter dealing with practical applications Includes application examples implemented in SPICE, Mathematica, and MATLAB

rd This book presents a collection of selected contributions presented at the 3 International Workshop on Scientific Computing in Electrical Engineering, SCEE-2000, which took place in Warnemünde, Germany, from August 20 to 23, 2000. Nearly hundred scientists and engineers from thirteen countries gathered in Warnemünde to participate in the conference. Rostock Univer sity, the oldest university in Northern Europe founded in 1419, hosted the conference. This workshop followed two earlier workshops held 1997 at the Darmstadt University of Technology and 1998 at Weierstrass Institute for Applied Anal ysis and Stochastics in Berlin under the auspices of the German Mathematical Society. These workshops aimed at bringing together two scientific communi ties: applied mathematicians and electrical engineers who do research in the field of scientific computing in electrical engineering. This, of course, is a wide field, which is why it was decided to concentrate on selected major topics. The workshop in Darmstadt, which was organized by Michael Glinther from the Mathematics Department and Ursula van Rienen from the Department of Electrical Engineering and Information Technology brought together more than hundred scientists interested in numerical methods for the simulation of circuits and electromagnetic fields. This was a great success. Voices coming from the participants suggested that it was time to bring these communities together in order to get to know each other, to discuss mutual interests and to start cooperative work. A collection of selected contributions appeared in 'Surveys on Mathematics for Industry', Vol.8, No. 3-4 and Vol.9, No.2, 1999.

Contains English abstracts of original papers and letters to the editor that appear in the Japanese edition.

New and Improved SI Edition—Uses SI Units Exclusively in the Text Adapting to the changing nature of the engineering profession, this third edition of Fundamentals of Machine Elements aggressively delves into the fundamentals and design of machine elements with an SI version. This latest edition includes a plethora of pedagogy, providing a greater understanding of theory and design. Significantly Enhanced and Fully Illustrated The material has been organized to aid students of all levels in design synthesis and analysis approaches, to provide guidance through design procedures for synthesis issues, and to expose readers to a wide variety of machine elements. Each chapter contains a quote and photograph related to the chapter as well as case studies, examples, design procedures, an abstract, list of symbols and subscripts, recommended readings, a summary of equations, and end-of-chapter problems. What ' s New in the Third Edition: Covers life cycle engineering ring design, and a new section on the design of shaft couplings Reflects the latest International Standards Organization standards Simplifies the geometry factors for bevel gears Includes a design synthesis approach for worm gears Expands the discussion of fasteners and welds Discusses the importance of the heat affected zone for weld quality Describes the classes of welds and their analysis methods Considers gas springs and wave springs Contains the latest standards and manufacturer ' s recommendations on belt design, chains, and wire ropes The text also expands the appendices to include a wide variety of material properties, geometry factors for fracture analysis, and new summaries of beam deflection.

This book presents physics-based electro-thermal models of bipolar power semiconductor devices including their packages, and describes their implementation in MATLAB and Simulink. It is a continuation of our first book Modeling of Bipolar Power Semiconductor Devices. The device electrical models are developed by subdividing the devices into different regions and the operations in each region, along with the interactions at the interfaces, are analyzed using the basic semiconductor physics equations that govern device behavior. The Fourier series solution is used to solve the ambipolar diffusion equation in the lightly doped drift region of the devices. In addition to the external electrical characteristics, internal physical and electrical information, such as junction voltages and carrier distribution in different regions of the device, can be obtained using the models. The instantaneous dissipated power, calculated using the electrical device models, serves as input to the thermal model (RC network with constant and nonconstant thermal resistance and thermal heat capacity, or Fourier thermal model) of the entire module or package, which computes the junction temperature of the device. Once an updated junction temperature is calculated, the temperature-dependent semiconductor material parameters are re-calculated and used with the device electrical model in the next time-step of the simulation. The physics-based electro-thermal models can be used for optimizing device and package design and also for validating extracted parameters of the devices. The thermal model can be used alone for monitoring the junction temperature of a power semiconductor device, and the resulting simulation results used as an indicator of the health and reliability of the semiconductor power device.

This book highlights a set of selected, revised and extended papers from the 7th International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH 2017), held in Madrid, Spain, on July 26 to 28, 2017. The conference brought together researchers, engineers and practitioners whose work involves methodologies in and applications of modeling and simulation. The papers showcased here represent the very best papers from the Conference, and report on a broad range of new and innovative solutions.

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