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Scientist Heike Onnes was using liquid helium to cool down the element mercury into its solid phase, and was then studying the properties of its electrical ... In a world of finite energy ...

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Fossil fuels are finite ... elements.

"Then there's the huge waste problem

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being created by the push for green energy. "Huge amounts of earth must be mined to extract the sparsely spaced minerals and ...

~~Green energy future may not be that easy or benign~~

Boqlietti, A. Chiampi, M. Chiarabaglio, D. and Tartaglia, M. 1990. Finite element approximation in axisymmetrical domains. IEEE Transactions on Magnetics, Vol. 26 ...

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

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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

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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

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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.

Vols. for 1974- are proceedings of the 20th- annual Holm Seminar on Electrical Contacts.

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 Warnemiinde, Germany, from August

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20 to 23, 2000. Nearly hundred scientists and engineers from thirteen countries gathered in Warnemiinde 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 ofthe 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

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in Darmstadt, which was organized by Michael Giinther 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.

Power Quality in Power Systems and
Electrical Machines, Second Edition

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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,

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

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