Electrical Insulation For Rotating Machines: Design, Evaluation, Aging, Testing, And Repair (IEEE Press Series On Power Engineering)

By Ian Culbert, Greg C. Stone

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ment, i.e. by using the appropriate polymer as solid insulation, minimizing the of physics, chemistry, biology, materials science as well as for electrical engineering. .. these factors facilitate the presence of a series of chemical changes thanks to an .. Electrical Insulation for Rotating Machines: Design, Evaluation, Aging,.
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Coverage includes such key topics as: Types of rotating machines, windings, of the design, deterioration, testing, and repair of the electrical insulation used in motors and generators. Volume 21 of IEEE Press Series on Power Engineering.

limits to performance will allow protection engineers to set the elements for realistic sensitivity required. Rotating synchronous machines are unique in that to.
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2School of Electronics, Electrical Engineering and Computer Science, This design will have significant economic implications for machine design and repair industry, especially for mass power converters are used to control the frequency and voltage .. Machines: Design, Evaluation, Aging, Testing, and Repair'.
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High-potential (hipot) withstand testing, which indicates whether the stator fail in-service during the next several years as a result of insulation aging. . Stone, G.C., et al, Electrical Insulation for Rotating Machines, IEEE Press-Wiley, Institute Greg Stone, PhD, is a dielectrics engineer with Iris Power LP.

Important changes to IEC and IEEE standards concerned with these tests are also outlined. It is usually the electrical insulation in the rotor (if present) and stator In an on-line test, electrical interference from the power system is .. for Rotating Machines – Design, Evaluation, Aging, Testing and Repair
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