

A Review of Polarization Index and IEEE Std. 43-2000

Advances in insulation properties have necessitated changes to a longstanding industry standard

By Howard W. Penrose, Ph.D., BJM Corp.

The types of insulation used in rotating machines have continued to evolve and precipitate changes to insulation resistance testing since 1974 when IEEE Std. 43, *Recommended Practice for Testing Insulation Resistance of Rotating Machinery* was introduced, but it wasn't until 2000 that the standard received a long overdue facelift. The revised standard, IEEE Std. 43-2000, drastically changed a number of traditional testing programs for insulation resistance that had been in place for more than 30 years, including polarization index (PI), insulation to ground tests, and DC versus AC testing of insulation systems. This article will discuss each of the changes to IEEE Std. 43-2000, beyond the standard reaffirmations from 1974 to 2000.

The purpose of an insulation resistance (IR) reading is to evaluate the condition of the insulation between conductors and ground. This is done by applying a direct voltage between the conductors (windings) and the casing of the electric motor (machine) and measuring current leakage across the insulation system. The readings are applied to Ohm's law ($R = V / I$), which provides a resistance.

In the case of an insulation system, current may be measured in milli- or micro-ohms. The lower the current reading, the higher the insulation resistance reading. These IR readings change over time because of dielectric absorption. Basically, the insulation system consists of polarized atoms that line up (polarize) with the applied DC voltage. As they polarize, the insulation resistance will increase.

Recommended Safe Minimum Values for Rotating Machinery	
Motor type	Insulation resistance value
Random wound before 1974	>1 Meg-ohm + 1 Meg-ohm/kV rating of motor
Random wound after 1974	>5 Meg-ohm
Form wound and DC armatures	>100 Meg-ohm
Motor voltage rating	Test voltage
< 600V	500V
1,000V to 2,500V	500V to 1,000V
2,500V to 5,000V	1,000V to 2,500V
> 5,000V	2,500V to 5,000V

IEEE Std. 43-2000 lists these safe minimum values for testing insulation in rotating machinery.

Polarization index. Prior to 1974, the industry relied on nonstandardized systems to evaluate the polarization of the insulation system. This led the IEEE to form a standards committee to address this situation. It was discovered that many insulation systems would polarize in anywhere from 10 minutes to several hours, so it was possible to produce a ratio using the insulation readings at the one-minute and 10-minute marks. This ratio could be recorded or compared to a simple table that would provide an indication of the condition of the winding.

It was then possible to analyze PI by either providing the direct ratio or plotting the readings in steady increments over time. In the past, a PI ratio of less than 2.0:1.0 would indicate a problem with the insulation system; usually the insulation would be carbonized (burned) or would have absorbed contamination. A poor reading would indicate that additional testing was necessary.

With the release of IEEE Std. 43-2000,

new limitations on the use and evaluation of PI were issued. This test is no longer as easy and straightforward as it once was because most new insulation systems start with test results in the Giga-ohm and Terra-ohm (billions and trillions of ohms) range. As a result, leakage current between the windings below the micro-ohm range require the instrument and test methods used, including how to position the conductors, to be extremely accurate. The readings must also be taken at the machine itself.

Readings taken from the motor control center (MCC) or disconnect may pick up high leakage currents in the cables caused by the cable surface area and produce errors. The testing at this point is so critical that the standard states, "If the one-minute insulation resistance is above 5,000 Meg-ohms, the calculated PI may not be meaningful. In such cases, the PI may be disregarded as a measure of winding condition."

Additional concerns with PI testing

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Electrical Plants and Electric Propulsion on Ships - 2019 Marco Giuffrida, 2018-11-16 Electrical plants on board modern cruise ships offshore rigs and other naval vessels have nowadays reached a size and complexity comparable or even superior to big industrial plants and power plants The continuous increase of the size of ships and the widely accepted adoption of electrical propulsion has led to the installation of HV MV power generation and distribution plants of very high power tens of MW Everybody who plans manages or services these complex on board power plants nowadays must have knowledge as well of HV plants and electrical machines power converters protection relays of control and automation systems This book intends to be an overview of technical features and planning issues of these electrical plants It is meant to bear general validity even if it is focused on larger ships with HV plants and electrical propulsion **Central and Southern Florida Project** United States. Office of the Assistant Secretary of the Army (Civil Works), 2012 *Central and Southern Florida Project, C-111 Spreader Canal Western Project*, 2009 **IEEE Std 43-2013 (Revision of IEEE Std 43-2000) - Redline**, 2014 Analog-to-Digital Conversion Marcel J.M. Pelgrom, 2012-12-12 This textbook is appropriate for use in graduate level curricula in analog to digital conversion as well as for practicing engineers in need of a state of the art reference on data converters It discusses various analog to digital conversion principles including sampling quantization reference generation nyquist architectures and sigma delta modulation This book presents an overview of the state of the art in this field and focuses on issues of optimizing accuracy and speed while reducing the power level This new second edition emphasizes novel calibration concepts the specific requirements of new systems the consequences of 22 nm technology and the need for a more statistical approach to accuracy Pedagogical enhancements to this edition include more than twice the exercises available in the first edition solved examples to introduce all key new concepts and warnings remarks and hints from a practitioner s perspective wherever appropriate Considerable background information and practical tips from designing a PCB to lay out aspects to trade offs on system level complement the discussion of basic principles making this book a valuable reference for the experienced engineer **Fixed Broadband Wireless System Design** Harry R. Anderson, 2003-03-14 Fixed broadband networks can provide far higher data rates and capacity than the currently envisioned 3G and 4G mobile cellular systems Achieving higher data rates is due to the unique technical properties of fixed systems in particular the use of high gain and adaptive antennas wide frequency bands dynamic data rate and channel resource allocation and advanced multiple access techniques Fixed Broadband Wireless System Design is a comprehensive presentation of the engineering principles advanced engineering techniques and practical design methods for planning and deploying fixed wireless systems including Point to point LOS and NLOS network design Point to point microwave link design including active and passive repeaters Consecutive point and mesh network planning Advanced empirical and physical propagation modeling including ray tracing Detailed microwave fading models for multipath and rain NLOS indoor and

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Annual IEEE Symposium on Foundations of Computer Science ,2002 Collects the 77 papers presented during the November 2002 symposium on the mathematical foundations of computing Among the topics are abstract combinatorial programs and efficient property testers a lower bound for testing 3 colorability in bounded degree graphs a spectral algorithm for learning IEEE Transactions on Dielectrics and Electrical Insulation ,2005 **Standards and Codes of**

Practice in Medical Radiation Dosimetry International Atomic Energy Agency,2003 These proceedings present a refereed selection of papers that were given at a symposium held in Vienna in November 2002 Emphasis was placed on dosimetry for therapeutic applications of radiation in medicine However some papers deal with dosimetry in diagnostic radiology and nuclear medicine Although many dosimetry techniques are discussed calorimetry is featured in one session exclusively Many papers deal with dosimetry standards protocols and comparisons The need for accurate dosimetry for the treatment of cancer was a common thread throughout the symposium **Object-Oriented and Classical Software Engineering**

Stephen Schach,2007 Integrating case studies to show the object oriented approach to software engineering Object Oriented and Classical Software Engineering 7 e presents an excellent introduction to software engineering fundamentals covering

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1. Understanding the eBook Ieee Std 43 2000 Revision Of Ieee Std 43 1974 Ieee
 - The Rise of Digital Reading Ieee Std 43 2000 Revision Of Ieee Std 43 1974 Ieee
 - Advantages of eBooks Over Traditional Books
2. Identifying Ieee Std 43 2000 Revision Of Ieee Std 43 1974 Ieee
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ieee Std 43 2000 Revision Of Ieee Std 43 1974 Ieee
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ieee Std 43 2000 Revision Of Ieee Std 43 1974 Ieee

- Personalized Recommendations
 - Ieee Std 43 2000 Revision Of Ieee Std 43 1974 Ieee User Reviews and Ratings
 - Ieee Std 43 2000 Revision Of Ieee Std 43 1974 Ieee and Bestseller Lists
5. Accessing Ieee Std 43 2000 Revision Of Ieee Std 43 1974 Ieee Free and Paid eBooks
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 - Ieee Std 43 2000 Revision Of Ieee Std 43 1974 Ieee eBook Subscription Services
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 - ePub, PDF, MOBI, and More
 - Ieee Std 43 2000 Revision Of Ieee Std 43 1974 Ieee Compatibility with Devices
 - Ieee Std 43 2000 Revision Of Ieee Std 43 1974 Ieee Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ieee Std 43 2000 Revision Of Ieee Std 43 1974 Ieee
 - Highlighting and Note-Taking Ieee Std 43 2000 Revision Of Ieee Std 43 1974 Ieee
 - Interactive Elements Ieee Std 43 2000 Revision Of Ieee Std 43 1974 Ieee
 8. Staying Engaged with Ieee Std 43 2000 Revision Of Ieee Std 43 1974 Ieee
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ieee Std 43 2000 Revision Of Ieee Std 43 1974 Ieee
 9. Balancing eBooks and Physical Books Ieee Std 43 2000 Revision Of Ieee Std 43 1974 Ieee
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ieee Std 43 2000 Revision Of Ieee Std 43 1974 Ieee
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Ieee Std 43 2000 Revision Of Ieee Std 43 1974 Ieee
 - Setting Reading Goals Ieee Std 43 2000 Revision Of Ieee Std 43 1974 Ieee
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Ieee Std 43 2000 Revision Of Ieee Std 43 1974 Ieee

- Fact-Checking eBook Content of Ieee Std 43 2000 Revision Of Ieee Std 43 1974 Ieee
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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