



IEEE 693 SEISMIC QUALIFICATION OF COMPOSITES FOR SUBSTATION HIGH-VOLTAGE EQUIPMENT

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This paper discusses research on the application of IEEE Standard 693 seismic qualification requirements for hollow-core composite insulators used on high-voltage instrument transformer substation equipment. The IEEE 693 qualification procedure of time history shake-table and static-pull tests as well as the acceptance criteria is evaluated. Failure modes for composite insulators are discussed. Experimental observations show that the acceptance criteria are invalid for qualifying hollow-core composites. The need for a static-pull test following vibration qualification tests is presented. The need for post-vibration-test measurement of damping is discussed. Changes to the IEEE standard and potential research are recommended

INTRODUCTION

IEEE Standard 693-1997, "IEEE Recommended Practice for Seismic Design of Substations" [1], is a major improvement in the way the power industry seismically qualifies substation high-voltage equipment. The standard has established discrete qualification levels with associated controlling response spectra, and well-defined qualification procedures and acceptance criteria. In addition to general procedures for analysis and testing, special procedures and criteria are developed for individual classes of equipment that reflect their unique characteristics and earthquake performance.

The standard provides two seismic qualification performance levels that are defined by excitation response spectra. Acceptance criteria are established so that equipment shake table-tests qualification need only be subjected to an excitation half of those defined by the performance response spectra. While not explicitly stated in the standard, it is the view of the authors that testing to half of the performance level requires that the failure modes of the equipment are understood and that associated critical variables, such as a strain, can be measured. The acceptance

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Table of Contents Ieee 693 Seismic Qualification Of Composites For

- 1. Understanding the eBook Ieee 693 Seismic Qualification Of Composites For
 - The Rise of Digital Reading Ieee 693 Seismic Qualification Of Composites For
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Ieee 693 Seismic Qualification Of Composites For
 - Exploring Different Genres
 - $\circ\,$ Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - \circ Features to Look for in an Ieee 693 Seismic Qualification Of Composites For
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Ieee 693 Seismic Qualification Of Composites For
 - Personalized Recommendations
 - Ieee 693 Seismic Qualification Of Composites For User Reviews and Ratings

- Ieee 693 Seismic Qualification Of Composites For and Bestseller Lists
- 5. Accessing Ieee 693 Seismic Qualification Of Composites For Free and Paid eBooks
 - Ieee 693 Seismic Qualification Of Composites For Public Domain eBooks
 - Ieee 693 Seismic Qualification Of Composites For eBook Subscription Services
 - Ieee 693 Seismic Qualification Of Composites For Budget-Friendly Options
- 6. Navigating Ieee 693 Seismic Qualification Of Composites For eBook Formats
 - o ePub, PDF, MOBI, and More
 - Ieee 693 Seismic Qualification Of Composites For Compatibility with Devices
 - Ieee 693 Seismic Qualification Of Composites For Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ieee 693 Seismic Qualification Of Composites For
 - Highlighting and Note-Taking Ieee 693 Seismic Qualification Of Composites For
 - Interactive Elements Ieee 693 Seismic Qualification Of Composites For
- 8. Staying Engaged with Ieee 693 Seismic Qualification Of Composites For
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ieee 693 Seismic Qualification Of Composites For
- 9. Balancing eBooks and Physical Books Ieee 693 Seismic Qualification Of Composites For
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Ieee 693 Seismic Qualification Of Composites For
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ieee 693 Seismic Qualification Of Composites For
 - Setting Reading Goals Ieee 693 Seismic Qualification Of Composites For
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ieee 693 Seismic Qualification Of Composites For
 - Fact-Checking eBook Content of Ieee 693 Seismic Qualification Of Composites For
 - 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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