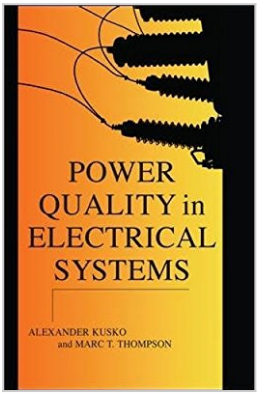

Power Quality in Electrical Systems (Electronics)

By Alexander Kusko, Marc Thompson

Power Quality in Electrical Systems (Electronics) By Alexander Kusko, Marc Thompson

Identify and Solve Key Electric-Power-Quality Problems and Ensure Reliable Power Delivery to All Customers

Power Quality in Electrical Systems equips you with the latest engineering techniques for providing power quality to all customers, and includes vital information on manufacturing, data processing, and healthcare facilities. Based on an IEEE Professional Education course, the book is a practice-oriented engineering tutorial for solving key electric-power-quality problems.

This skills-building resource is designed to improve job performance by taking you step-by-step through voltage distortion…harmonic current sources…power capacitors…corrections for power-quality problems …switched-mode power supplies…uninterruptible power supplies…standby power systems…power-quality measurements…and more. Filled with 100 detailed illustrations, *Power Quality in Electrical Systems* enables you to:

- Spot and correct key electric-power-quality problems
- Achieve full compliance with IEEE standards
- Examine switched-mode power supplies, rectifiers, and other loads that produce interference
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Inside This Comprehensive Power-Quality Guide

• Power-quality standards • Voltage distortion • Harmonics • Harmonic current sources • Power harmonic filters • Switched-mode power supplies • Corrections for power-quality problems • Uninterruptible power supplies • Power-quality events • Standby power systems • Power-quality measurements

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Marc Thompson is a senior managing engineer and an adjunct professor of electrical engineering at Worcestor Polytech.

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