



Electrical Power Systems Quality, Third Edition (Electronics)

By Roger C. Dugan, Mark F. McGranaghan, Surya Santoso, H. Wayne Beaty

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THE DEFINITIVE GUIDE TO POWER QUALITY--UPDATED AND EXPANDED

Electrical Power Systems Quality, Third Edition, is a complete, accessible, and up-to-date guide to identifying and preventing the causes of power quality problems. The information is presented without heavy-duty equations, making it practical and easily readable for utility engineers, industrial engineers, technicians, and equipment designers. This in-depth resource addresses the essentials of power quality and tested methods to improve compatibility among the power system, customer equipment, and processes.

Coverage includes:

- Standard terms and definitions for power quality phenomena
- Protecting against voltage sags and interruptions
- Harmonic phenomena and dealing with harmonic distortion
- Transient overvoltages
- Long-duration voltage variations
- Benchmarking power quality
- International Electrotechnical Commission (IEC) and Institute of Electrical and Electronics Engineers (IEEE) standards
- Maintaining power quality in distributed generation systems
- Common wiring and grounding problems, along with solutions
- Site surveys and power quality monitoring

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Editorial Review

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H. Wayne Beaty is the former managing editor of *Electric Light and Power* and editor of McGraw-Hill's *Standard Handbook of Electrical Engineering*, Thirteenth Edition.

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