



Power Quality in Power Systems and Electrical Machines

By Ewald Fuchs, Mohammad A. S. Masoum

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The second edition of this must-have reference covers power quality issues in four parts, including new discussions related to renewable energy systems. The first part of the book provides background on causes, effects, standards, and measurements of power quality and harmonics. Once the basics are established the authors move on to harmonic modeling of power systems, including components and apparatus (electric machines). The final part of the book is devoted to power quality mitigation approaches and devices, and the fourth part extends the analysis to power quality solutions for renewable energy systems. Throughout the book worked examples and exercises provide practical applications, and tables, charts, and graphs offer useful data for the modeling and analysis of power quality issues.

- Provides theoretical and practical insight into power quality problems of electric machines and systems
- 134 practical application (example) problems with solutions
- 125 problems at the end of chapters dealing with practical applications
- 924 references, mostly journal articles and conference papers, as well as national and international standards and guidelines

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