



symmetry



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Advanced Technologies in Power Quality and Power Disturbance Data Application

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This Reprint compiles research from the closed Special Issue "Symmetry in Advanced Technologies in Power Quality and Power Disturbance Data Application" published in the journal *Symmetry*. It explores the electrical power system as a complex symmetrical network balancing supply and consumption, emphasizing the critical role of power quality (PQ). Key PQ disturbances—including voltage sags, harmonics, transients, and asymmetrical variations—are examined for their impact on system stability and end-user reliability. The volume addresses advanced methods for PQ monitoring, mitigation, and prevention, highlighting the evolving challenge of analyzing these phenomena. Significantly, it investigates how disturbances, leveraged through power-related big data analytics, can provide valuable insights into system health and equipment conditions, transforming traditional PQ management into an opportunity for intelligent diagnostics.



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