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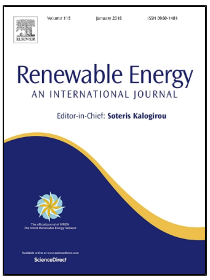

Taguchi's Method for Probabilistic Three-Phase Power Flow of Unbalanced Distribution Systems with Correlated Wind and Photovoltaic Generation Systems

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HIGHLIGHTS

1. *A probabilistic three-phase load flow accounting for correlated loads, PV and WD plants is proposed*
2. *Several probabilistic models of PV and WD plants were considered*
3. *An algorithm based on the Taguchi orthogonal arrays is proposed*
4. *A transformation of the correlated input random variables is applied*
5. *Comparisons with Monte Carlo simulation and Point Estimate Method were performed*

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