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电力系统振荡的可视化研究

王庆红1，Thomas J. Overbye2

摘要：对系统振荡研究而言，振荡模式和参与因子是最重要的数据。本文研究形成和展示振荡模态和参与因子，以便系统调度员很快地获取重要信息，判断出引起系统的振荡是哪些发电机及其影响有多大。选择不同的信息可视化方法，包括改变颜色、大小和形状，以及两维和三维的显示方法，满足不同的用户偏好。

关键词：振荡模态；参与因子；可视化

Visualization Research on Electrical Power System Oscillations

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Abstract：The oscillation modes and participation factors are crucial data for the analysis of system oscillations. The goal of this work is to take oscillation mode shape and participation factor data and display it, so that system operators can quickly obtain the important information and determine which generators are contributing to the oscillations and how much they are engaging in. Many options have been considered, including changing colors, sizes, and shapes, as well as two-dimensional and three-dimensional displays to meet the preference of different users to visualize information.

Key words: oscillation mode shape; participation factor; visualization

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