



南方电网低频振荡问题及PSS参数分析  
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摘要: 采用SSAP电力系统小干扰稳定分析软件, 对南方电网2010年典型运行方式下的区间低频振荡模式进行了详细的分析。通过在适当机组加装PSS, 并根据灵敏度提供的信息对PSS参数进行优化调整后, 系统稳定性得以显著提高。

关键词: 南方电网; 小干扰稳定; 电力系统稳定器 (PSS); 特征值灵敏度

Analysis on Low Frequency Oscillation and PSS Parameters  
in China Southern Power Grid

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Abstract: The small signal stability of Southern Power Grid in 2010 is analyzed by SSAP with focus on the interarea low frequency oscillations. The total stability of system is improved evidently by adding PSS to proper generators and tuning some PSS parameters according to the information offered by eigenvalue sensitivity analysis.

Key words: China Southern Power Grid; small signal stability; power system stabilizer (PSS); eigenvalue sensitivity

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