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AN INFLUENCE OF DIGITAL FILTERING OF SIGNALS AT ANALYSIS RESULTS OF LOW-FREQUENCY ELECTROMECHANICAL OSCILLATIONS IN INTERCONNECTED POWER SYSTEMS

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Abstract

This article presents some results of studies on the influence of digital signal filtering at the analysis results of low-frequency electromechanical oscillations in interconnected power systems. Selected and prepared methods of signal analysis are used to analyse in real-time the signals measured by phasor measurement units . It is shown that preliminary digital filtering of signals improves the reliability of mentioned analysis results. References 11, figure 1, tables 2.

Key words: Interconnected power system, low-frequency electromechanical oscillations, mode, methods of signal analysis, digital filtering of signals.

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