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**Confidence estimation of the method of load characteristic definition using phasor measurements.**

Correct and updated estimation of load models parameters plays significant role in power systems studies. These parameters can be estimated using data registered by WAMS during contingencies in the power system. Method of load model parameters estimation based on system state analysis is proposed in this paper. Parameters of various types of load models can be estimated and information on type and structure of load is not necessarily needed. Correctness of obtained load models parameters is checked using physical power system simulator and EUROSTAG digital models. Estimated load model parameters provide better quality for digital power systems models than type-parameters.

*Key words: load, load characteristic, wide area measurement system, transient.*

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