

Problems of stability of automatic control systems for hydraulic units.

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The article presents an author's approach to modeling Kaplan turbines. The resulting model is suitable for practical studies of transient processes in power systems. The process of model development and its structure are outlined. A methodology for determining model parameters based on input data is proposed. The static and dynamic properties of the model are verified using real experimental data.

Key words: hydro turbine, Kaplan turbines, turbine model, structural scheme, model initialization algorithm.