

Automatic implementation of equipment models for transient stability analysis by symbolic manipulations

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One of the most important tasks in development of transient stability analysis software is equipment models library support. This paper discusses the process of automatic implementation of custom equipment models, described in graphical and text forms or their combination. The implementation process relies on symbolic manipulations and requires no programming skills from the users.

Keywords: transient stability analysis, equipment simulation models, symbolic manipulation, computer algebra, compilation.