

Bachelor Thesis

Comparison of different synchronous machine models

Motivation

For analyses, it is relevant to define which effects are to be considered in advance. This also defines the minimum requirements for the level of detail of the modelling. More sophisticated calculation software typically offers a larger number of model types that can be used. It is not always easy to determine which modelling type is the most suitable.

Research Topics

- Which modelling types are available in DigSILENT PowerFactory and what are their primary properties?
- What influence do the models have on different effects?
- Which models are suitable as minimum modeling for certain effects?

Procedure/Methodology/Task definition

- Literature research on the models of the synchronous machine
- Determination of the effects to be analyzed
- Carrying out calculations
- Documentation

Organisational Issues

Begin immediately

Contact Person/Supervisor

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