

Computer-aided design in power engineering: application of software tools

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Abstrak

This textbooks demonstrates the application of software tools in solving a series of problems from the field of designing power system structures and systems. It contains four chapters :

The first chapter leads the reader through all the phases necessary in the procedures of computer aided modeling and simulation. It guides through the complex problems presenting on the basis of eleven original examples.

The second chapter presents application of software tools in power system calculations of power systems equipment design. Several design example calculations are carried out using engineering standards like MATLAB, EMTP/ATP, Excel & Access, AutoCAD and Simulink.

The third chapters focuses on the graphical documentation using a collection of software tools (AutoCAD, EPLAN, SIMARIS SIVACON, SIMARIS DESIGN) which enable the complete automation of the development of graphical documentation of a power systems.

In the fourth chapter, the application of software tools in the project management in power systems is discussed. Here, the emphasis is put on the standard software MS Excel and MS Project.