

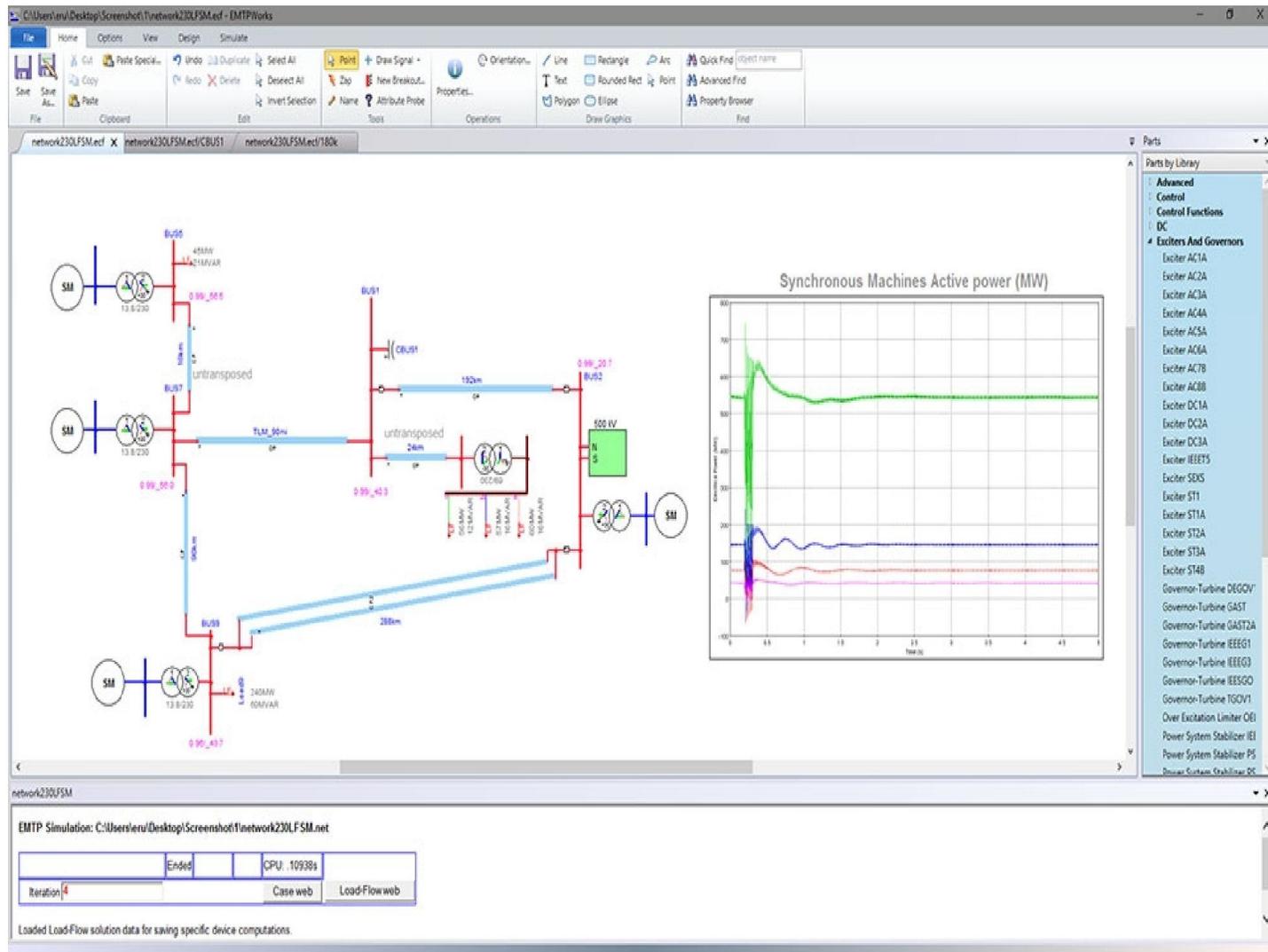
# EMTP Toolbox for Simulink

## Reference for simulation in power system transients

### Highlights

- Fast computational engine
- Load flow, time domain, and frequency scan
- Unbalanced multiphase load flow
- Large collection of components
- Applications: Lightning and switching transients, renewable energy sources, power quality, insulation coordination, HVDC and FACTS, transmission, and distribution systems

### Description



Simulation of single-phase fault in an unbalanced 230Kv network.

[EMTP](#) is an advanced simulation and analysis software for power system transients. The package is a sophisticated computer program for electromagnetic and electromechanical simulation in multiphase electric power systems. EMTP includes:

- EMTPWorks, an advanced user interface that maximizes the capabilities of the underlying EMTP engine. EMTPWorks provides many customization and scripting options; users can adapt it to match its unique needs.
- A powerful and fast computational engine that provides significantly improved solution methods for nonlinear models, control systems, and user-defined models. Time-domain simulations are initialized from unbalanced multiphase load flow.
- ScopeView, an advanced visualization and mathematical post-processing tool adapted for the visualization and analysis of EMTP simulation results.
- A comprehensive library of components and function blocks that enables users to realize complete and complex power system studies.

With the EMTP Toolbox for Simulink, users can import any Simulink® model, regardless of its complexity, into EMTP designs using two clicks. Using MATLAB®, Simulink, MathWorks code generation tools and a compiler, users can create a DLL containing the Simulink model logic. This DLL is used by the import tool to create the EMTP model with all the necessary connections (pins). Vectors and complex and real signals can be interfaced with EMTP. It is also possible to define tunable parameters in the Simulink model and to assign them in EMTP.



## [EMTP](#)

2B, 1455 Rue Drummond  
Montréal, Québec H3G 1W3  
CANADA  
Tel: 438-870-8884  
[sales@emtp-software.com](mailto:sales@emtp-software.com)  
<http://emtp-software.com>