



The world's most **full-featured** simulation and analysis program for power system transients.

Applications:

EMTP-RV is suited to a wide variety of power system studies, whether they relate to project design and engineering, or to solving problems and unexplained failures.

- Power system design
- General purpose circuit analysis: wideband, from load-flow to steady-state initialization to time-domain
- Simulation and analysis of power system transients; lightning, switching, temporary conditions
- Detailed simulation and analysis of large scale (unlimited size) electrical systems
- Network analysis: network separation, power quality, geomagnetic storms, interaction between compensation and control components, wind generation
- Synchronous machines: SSR, auto-excitation, control
- Multiterminal HVDC systems
- Power electronics
- Series compensation: MOV energy absorption, short-circuit conditions, network interaction
- Transmission line systems: insulation coordination, switching, design, wideband line and cable models
- Switchgear: TRV, shunt compensation, current chopping, delayed-current zero conditions, arc interaction
- Protection: power oscillations, saturation problems, surge arrester influences
- Detailed transient stability analysis
- Unbalanced distribution networks

The benefits of EMTP-RV:

- + Easy to use, drag-and-drop interface
- + Superior modeling flexibility
- + Advanced simulation engine
- + Validation history
- + World-class support and user group



Software package:

EMTP-RV

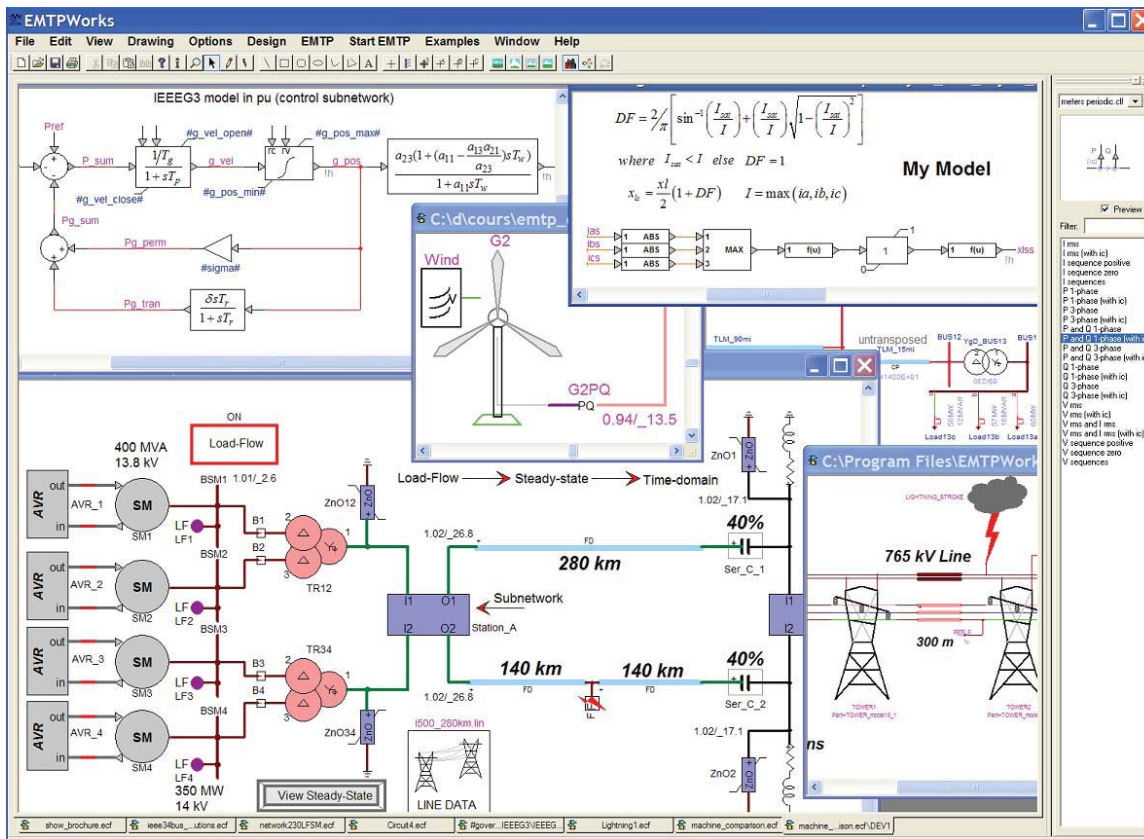
A powerful and super-fast computational engine that provides significantly improved solution methods for nonlinear models, control systems, and user-defined models. The engine features a plug-in model interface, allowing users to add their own models.

EMTPWorks

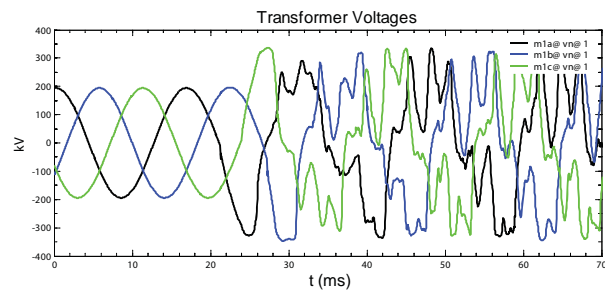
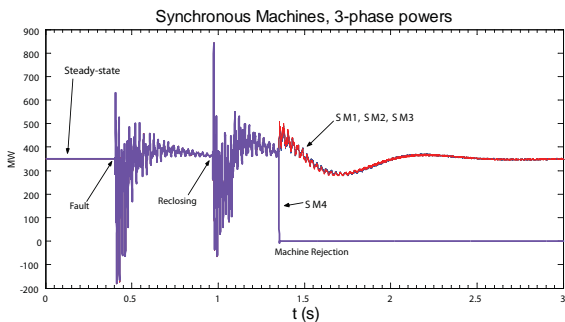
An advanced, yet easy-to-use graphical user interface that maximizes the capabilities of the underlying EMTP-RV engine. EMTPWorks offers drag-and-drop convenience that lets users quickly design, modify and simulate electric power systems. A drawing canvas and the ability to externally program device data allows users to fully customize simulations to their needs. EMTPWorks can be used for small systems or very large-scale systems.

ScopeView

Provides waveform visualization and advanced mathematical post-processing capabilities.



The EMTWork user interface and sample waveforms



EMTWork: Simulation of power systems has never been so easy.

+ Drag-and-drop simplicity

Need to add a transformer to your simulation? Just select it from the EMTWork device library. The library contains a wealth of built-in elements, including rotating machines, power electronics components, compensators, phasors, switches, meters and much more.



+ Superior modeling flexibility

Can't find exactly what you're looking for in the device library? Simply add your own user-defined device.

Scripting techniques provide the ability to externally program device data forms and generate the required Netlists. A symbol editor is used to modify and customize device drawings. Scripting techniques are also used for parametric studies.

EMTWork also lets the user define any number of subcircuits to create hierarchical designs.

For sales inquiries visit www.cyme.com or contact us at:



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