

# SIMPOW® Power Flow

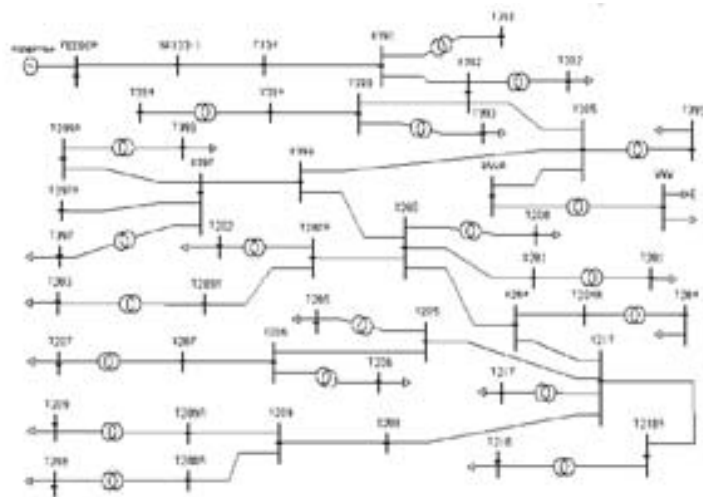
Used for usual power-flow simulations such as calculation of load-flow balance, transformer tap settings, initial state for dynamic runs etc.

Simulates the steady-state symmetrical conditions, considering power-frequency voltages and currents. The power system is represented by a single-phase model using positive sequence quantities only. The state of the system is given by node voltages in the form of phasors, injected active and reactive power and some other variables.

- Dynamic or Newton Raphson method
- Dynamic method uses backward differentiation method to find the stationary solution – robust and fast
- Multi load-flow runs by run instructions in a Command File
- Possible to specify a variety of constraints on variables and limits

## Models

- Nodes
  - Lines
  - Transformers
  - Series reactors
  - Series capacitors
  - Shunt Impedances
  - Voltage dependent loads
  - Asynchronous machines
  - DFIG
  - Mechanical loads
  - Rotary converters
  - HVDC converters
  - PWM converters
  - Cyclo converters
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- Build your own models with the high level programming language DSL (Dynamic Simulation Language)



More information and free demo at  
[www.simpow.com](http://www.simpow.com)

