



Multicore Simulation of Power System Transients (Iet Power and Energy)

Fabian M. Uriarte

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Multicore Simulation of Power System Transients introduces a notional power system model consisting of hundreds of power apparatus and is used to demonstrate how to partition and parallelise the simulation of power system transients on a multicore desktop PC.

The power system throughout *Multicore Simulation of Power System Transients* is discretized and formulated using the mesh and nodal methods. The author shows that the mesh method can result in matrices that are 99% sparse and that graph theory is not required. Several examples are included in this new book to conceptually show how power systems are partitioned and parallelized. To provide a reference on how fast a multicore solver can be, parallel simulation runtimes are compared against MATLAB/Simulink. Topics covered include: power system modelling in the time domain, discretization, network formulation, network partitioning, multithreading and performance analysis.

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