

# Power System Transient Stability Analysis with PowerWorld Simulator

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## **Day 1**

8:00	-	8:30	TS_01	Model Relationships: Machine, Exciter, Governor, Stabilizer, Turbine Load Controller, Other
8:30	-	9:30	TS_02	Input Data: Generator Models, Load Models, Model Explorer, interchange with DYD or DYR files, GENCC models
9:30	-	9:45		Break
9:45	-	10:30	TS_03	Transient Stability Basics: Model Initialization, Initial Limit Violations, State Equations
10:30	-	11:15	TS_04	Model Validation: Time Constants, Machine Parameters, Limits
11:15	-	12:00	TS_05	Transient Contingency Definitions, Sample Simulation
12:00	-	1:00		Lunch
1:00	-	1:45	TS_06	Result Storage: Results Available (Fields, Inputs, States, and Others); RAM and Disk; Result Options
1:45	-	2:45	TS_07	Plot Definition
2:45	-	3:00		Break
3:00	-	3:45	TS_08	Plot and Results Display: Plot Interaction, Max/Min Values, Time Values, Events
3:45	-	4:30	TS_09	Processing Multiple Contingencies

## **Day 2**

8:30	-	9:00	TS_10	Transient Limit Monitors: Generic Limit Monitors, User-Defined Limit Monitors, Monitor Violations
9:00	-	9:30	TS_11	SMIB Eigenvalues
9:30	-	10:00	TS_12	Wind Turbine Modeling
10:00	-	10:15		Break
10:15	-	11:15	TS_12	Wind Turbine Modeling (Cont)
11:15	-	12:00	TS_13	Large-Scale Simulation Example