



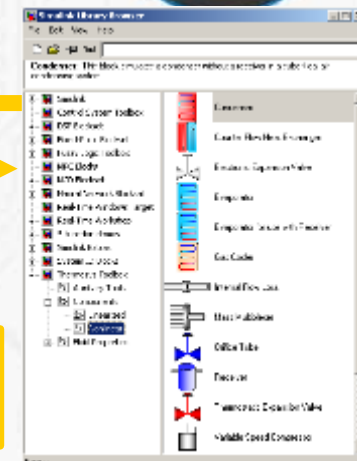
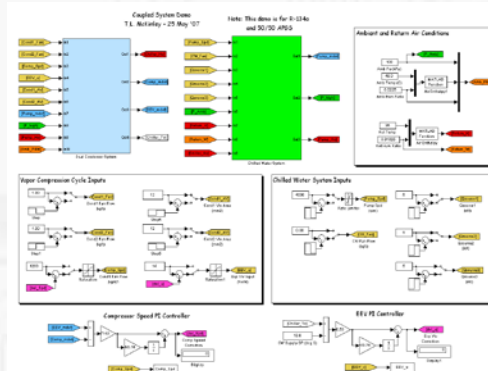
# Andrew Alleyne-University of Illinois

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- Modeling simulation and control tools for complex nonlinear systems
- Online dynamic optimization for multi-physics power management
- Theory and Experiment

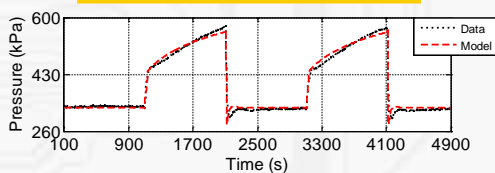
<http://arg.mechse.illinois.edu>



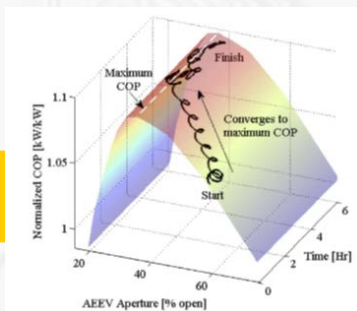
Modeling and Simulation Tools

Modular & scalable approach

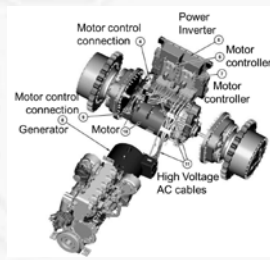
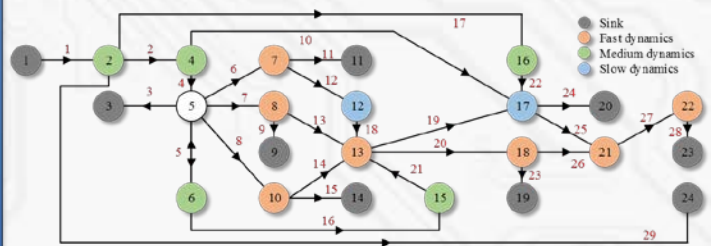
Model Validation



Theory and Experiment



Management of Complex Multi-Physics nonlinear systems



Multi-domain power network analysis

Real-time Optimization

