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P-09 “Thermal Simulations of Advanced Powertrain System

18th Directions in Energy-Efficiency and Emissions Research (DEER) Conference

Dearborn, Michigan 16-19 October
Existing Complete Vehicle Model

Highlights of New Models:
- >>> Real Time
- System/complete vehicle approach.
- Ideal for concept development
- Modular approach.
- Verified with road test.

Simulation Techniques
- Discretization
- Lumped-parameter methods
- KULI simulations
- Thermal delay

Focus of Current Work

Integrated Waste Heat Recovery Model

Final Goal