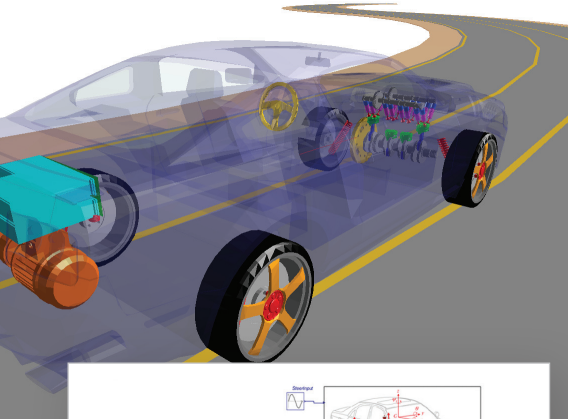


EV and HEV Design

Maplesoft Engineering Solutions

Reduce Development Risk. Create Better Products. Get to Market Faster.



New generation electric and hybrid-electric vehicles present significant challenges to automotive engineers.

Maplesoft™ specializes in the modeling, simulation, and optimization of complex multidomain systems, such as powertrains, electric motors, generators, and batteries. The multidomain systems required in electric and hybrid-electric vehicles are combined into a single model, so design and optimization can be done at the system level.

Maplesoft Engineering Solutions include:

- System-level model development and validation of electric vehicle platforms
 - » Powertrain
 - » Energy storage/conversion
 - » Vehicle dynamics
- Optimized model code for in-the-loop simulations
- Analysis and design calculation tools
- Model predictive control

Past EV/HEV design projects and applications include:

- High-fidelity physics-based battery modeling
- Electric vehicle powertrains
- Power-split hybrid-electric vehicles

Maplesoft's Engineering Solutions provide you with the expertise and tools you need to meet your project requirements, quickly and effectively. With experts in a variety of engineering fields, extensive experience in model-based design, and the superior system-level modeling and analysis tools MapleSim™ and Maple™, Maplesoft can help you reduce development risk and bring high-quality products to market faster.

Talk to a **Maplesoft Engineering Solutions expert** to learn how we can help you with your design projects.

Products

Develop system-level models with **MapleSim** and **Maple**, and dramatically reduce model development time, gain greater insight into system behavior, and produce fast, high-fidelity simulations.



Services

With expertise in a variety of engineering fields and extensive experience in model-based design, **Maplesoft experts** are available to help you solve your engineering design problems.

