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2014 Chevrolet Silverado 1500 Detailed Finite Element Model

The finite element method is the most widely used method for solving problems of engineering and mathematical models. Typical problem areas of interest include the traditional fields of structural analysis, heat transfer, fluid flow, mass transport, and electromagnetic potential. The FEM is a particular numerical method for solving partial differential equations in two or three space variables. To solve a problem, the FEM subdivides a large system into smaller, simpler parts that are called fini

Finite element method - Wikipedia

EDAG, Inc., developed a full vehicle finite element model (FEM) including a vehicle interior and occupant restraint systems for the driver and front-seat passenger. The resulting FEM represents a model year (MY) 2014 Honda Accord mid-size sedan.

Crash Simulation Vehicle Models | NHTSA

This course will develop an understanding of how finite element analysis (FEA) can be applied to mechanics and thermal fluids problems. Students will apply the mathematics of FEA to solve engineering problems and utilize software packages to aid in analysis. Offered by Mechanical Engineering. Limited to two attempts.

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Average element size of the model is 6-8 mm with a minimum size of 4 mm. Typical simulation time step is 0.7 μs. The model was created for use with the LS-DYNA nonlinear explicit finite element code. Approximate time to run a 120 ms simulation using 16 cores is 11 hours. Related stories and links

2012 Toyota Camry Detailed Finite Element Model

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