

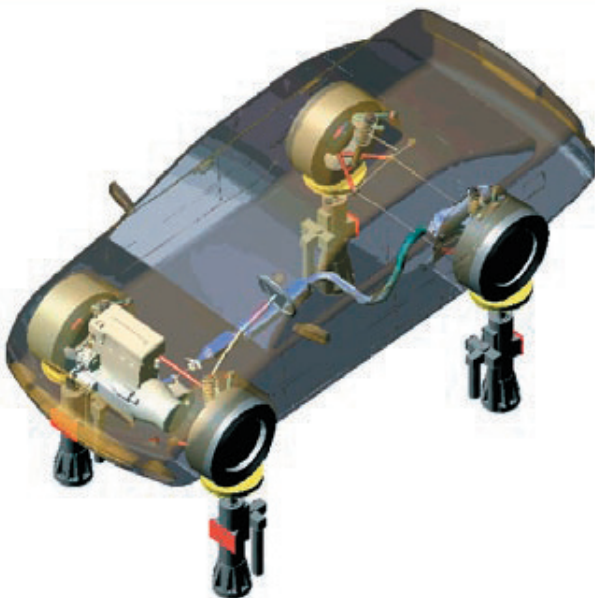
ADAMS Full Simulation



Course Description

If you're new to mechanical system simulation, this course will give you the foundation of skills you'll need to begin using MSC.ADAMS' powerful virtual prototyping, testing, and visualization capabilities.

With MSC.ADAMS you will be able to setup multi body dynamic simulations quickly and effectively.



Topics:

- Create parts and organize them into mechanical systems.
- Connect parts with ideal constraints, such as:
 - Standard joints (hinges, sliders, etc.)
 - Joint primitives
 - Complex (couplers, screw, etc.)
 - Curve (cam-follower, pin-in-slot)
- Actuate a system with:
 - Ideal and complex part motion
 - Applied forces
 - Gravity
- Connect parts with more realistic forces:
 - Simple (springs, dampers, etc.)
 - Complex based on system states (displacements, velocities, etc.)
 - complex based on test data
- contacts and collisions
- Measure quantities of interest (displacements, velocities, accelerations, applied loads, forces)
- Perform static, transient, and linear simulations
- Precisely control and manage your simulations
- Investigate test results via animations and plots
- Manage files generated and used by ADAMS/View and ADAMS/Solver
- "Putting it all together" to complete a comprehensive workshop that tests comprehension of modeling elements and techniques.
- Additional topics discussed are:
 - importing CAD-based geometry
 - performing cam synthesis
 - applying joint friction
 - performing design studies
 - applying sensors to your system
 - ADAMS/AutoFlex

Prerequisites:

- A basic knowledge of dynamics is recommended.

For more information on this course please contact Riekert Leibbrandt 0861237837 or email r.leibbrandt@esteq.com