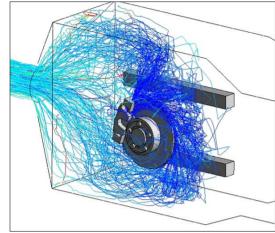
# **Automotive Engineering**

## 4. Software Applications



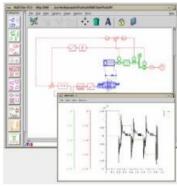
#### **ANSYS**

- FEM software for linear and non-linear problems in the fields of structural mechanics, structural dynamics, fluid mechanics, thermodynamics, piezoelectricity, electromagnetism and combined approaches
- Application: NVH analysis / analysis of aerosol flows (fine dust emissions) / friction simulation in automotive vibration dampers



### **AME Sim**

- Simulation of hydraulic and pneumatic systems, signal processing, fluid and heat transfer coupling
- Application: Unsteady system simulation of electrohydraulic braking systems



#### LabView

- Software for system development used in measurement, test, control and regulation applications
- Fast hardware access with fast insight into data
- Creation of real-time applications for measurement data and controlling processes
- Creation of executable programs in customer order (stand alone applications)
- Application: Data acquisition and control of automated systems

