

Accurate, Powerful, Easy-to-use The ultimate workbench to test your design ideas!

## Available For:

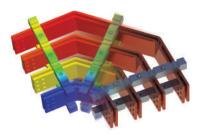








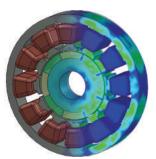
### **CAD Embedded Simulation**



Electric stresses in a bus bar assembly

#### **Electric simulation** (Electrostatic, AC Electric and Electric Conduction)

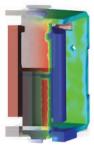
- Predict and prevent dielectric breakdown and electronic discharge issues
- Accurately model and simulate the electric behavior of biological tissues
- Design MEMS based devices based on electrostatic actuation
- Study the impact of conductivity on your power budget



Magnetic flux density distribution in a BLDC motor

# **Magnetic simulation** (Magnetostatic, AC Magnetic and Transient Magnetic)

- Study performance of your motors and linear actuators
- Compute the forces acting on components due to magnetic field
- Build and study the working of innovative products using permanent magnet arrays
- Design and study the performance of transformers and inductors



Forces driving the plunger of a solenoid valve

### Multi-physics (Thermal, Motion and Structural)

- Analyze complex moving machine with coupled EM and Motion simulation
- Compute thermal stresses and identify vulnerable areas in my designs using coupled EM and thermal simulation
- Design electrical components like motors, generators, transformers etc where thermal management is a key issue

### **Benefits**

- Fully embedded inside SOLIDWORKS, Inventor and SpaceClaim
- Avoid needless import/export of geometry
- Quickly compare multiple design configurations to select the optimal design
- Perform multi-physics EM simulation with motion, thermal and structural

