



R16.0

- Essential physics for fluids, structures, thermal, and electric conduction
- Static/steady state, modal
- Single, easy-to-use user environment
- Geometry modelling
- Design exploration

R16.1

- User experience improvements
- Structural joints
- Conjugate heat transfer (Beta)
- Compressible flow (Beta)
- Stress-life fatigue (Beta)
- Custom templates (Beta)

R16.2

- Conjugate heat transfer
- Compressible flow
- Buoyancy
- Nonlinear contact
- Large deflection
- Stress-life fatigue
- One-way thermal fluid-structure interaction
- Custom templates
- Enhanced graphics

R17.0

- Integrated geometry modelling
- Material rendering
- Integrated design points
- Automatic region interfaces
- Enhanced solution monitoring
- Remote loads
- Strain-life fatigue
- Field level help
- AIM on simulation portal
- Student licensing
- User experience improvements

R17.1

- Magnetostatics
- Magnetic-thermal coupling
- Polymer extrusion
- Structural shells
- Solution monitors
- Performance enhancements
- Material appearance settings
- Geometry modeling enhancements
- Multi-step templates
- User experience enhancements
- AIM included with Mechanical Enterprise

R17.2

- Simulation steps
- Bolt pretension
- Thermal transients
- Momentum and heat sources
- Periodic interfaces
- Wall roughness
- Viscosity as a function of strain rate
- Monitoring calculated values
- Extrusion with thermal effects
- Geometry and mesh transfer to Mechanical
- Japanese user interface
- User experience enhancements
- HTML report generation

R18.0

- Magnetic frequency response
- Magnetic-thermal coupling
- Solver dependent expressions (Fans)
- Additional structural boundary conditions
- Display multiple results
- Display calculated values
- Shell FSI
- Mesh transfer to Fluent
- Scripting for geometry
- Chinese user interface
- AIM included with CFD Enterprise

R18.1

- Porous media
- Display solution residuals and mesh quality
- Bi-linear isotropic hardening plasticity
- Enhanced solver messages
- Enhanced solver file management
- Temperature dependent material properties for magnetics
- One-way thermal-magnetic coupling
- Enhanced conservative mapping for losses
- AIM home page
- Guided simulation apps
- In-context apps

R18.2

- Transient fluids
- Particle transport
- Co-extrusion
- Region interface thermal conductance
- Topology optimization
- Point mass
- Conditional expressions (Bearing load)
- Magnetics enhanced solution control
- Enhanced current condition
- Magnetic results on edges
- Display of Min/Max values
- Interactive results probe
- Realistic material rendering default
- 3D space navigation device
- Enhanced model transfer to Mechanical and Fluent

R19.0

- Orthotropic porosity
- Multiple materials for solid thermal regions
- CHT and FSI template enhancements
- Topology optimization results monitoring
- Spring connections
- Small sliding for linear contact
- Enhanced model transfer to Mechanical
- Surface integral results
- Fill factor for stranded conductors
- Enhanced electromagnetic template
- Results on a line
- Control of animation speed
- Connect to Discovery Live
- 4 HPC cores included with AIM