/ STRUCTURES

STRUCTURES	MECHANICAL ENTERPRISE	MECHANICAL PREMIUM	MECHANICAL PRO	AUTODYN	LS-DYNA	SHERLOCK	MOTION	FORMING PRO		
VIBRATIONS										
Modal	●	●	●		●	●	●			
Modal - Pre-Stressed	●	●	●		●		●			
Modal – Damped/Unsymmetric	●	●								
Transient - Mode-Superposition	●	●			●	●	●			
Harmonic - Mode-Superposition	●	●			●	●				
Harmonic - Full	●	●			▲					
Nonlinear Harmonic – Full	●									
Spectrum	●	●			●					
Random Vibration	●	●			●	●				
Mistuning	●	●								
Multi-Stage Cyclic Symmetry	●									
Rotordynamics	●	●			●					
ACOUSTICS										
Modal Acoustics	●									
Harmonic Acoustics	●				●					
Transient Acoustics	●				●					
Boundary Element Method Acoustics	●				●					
Spectral Element Method Acoustics					●					
Statistical Energy Analysis Acoustics	●				●					
Piezoelectric Acoustics	●									
Generation of Acoustic Signature from Contact Regions	●				●		●			
Acoustics Element Library	●	●			●		●			
Acoustics Material Models	●	●			●					

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WAVE HYDRODYNAMICS								
Diffraction and Radiation	●							
Frequency & Time Domain Motions Analysis	●							
Moorings, Joints & Tethers	●							
Internal Tanks	●							
Load Transfer to Structural Analysis	●							
ADDITIONAL PHYSICS								
1-D Thermal-Flow	●	●	●		●			
1-D Coupled-Field Circuits	●							
1-D Electromechanical Transducer	●							
Piezoelectric	●				●			
Piezoresistive	●							
Electromagnetic	●							
Electro-Migration	●					●		
Diffusion-Pore-Fluid	●							
Diffusion-Thermal-Electric-Magnetic	●							
1-Way Fluid Structure Interaction	■[2]	■[2]	■[2]					
2-Way Fluid-Structure Interaction	■[2]	■[2]	■[2]	●	●			
Incompressible Fluid Dynamics (ICFD)					●			
Arbitrary Lagrangian Eulerian Method (ALE)					●			
Electromagnetics (EM) - Boundary Element Method (BEM)					●			
Multi-scale Modeling	●				●			
Conservation Element/Solution Element (CESE)					●			

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COMPOSITE MATERIALS								
Material Definitions	●	●		●	●	●	●	
Ply Definitions	●	▲		●	●	●		
Interface Layers	●				●			
Advanced Ply-Modeling Features	●							
Variable Material Data	●				▲			
Solid Extrusion	●				●			
Lay-Up Mapping	●				■[14]			
Draping	●				●			
Lay-Up Exchange Interfaces	●							
Advanced Failure Criteria Library	●				▲			
First-Ply Failure	●	●			●			
Last-Ply failure	●				●			
Delamination	●				●			
Composite Cure Simulation	■[9]				▲			
Sandwich Modeling	●				●			
Automation / Run Scripts	●				●			
Short Fiber Composites	●				●			

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DURABILITY								
Stress-Life (SN)	●	●	●		●		●	
Strain-Life (EN)	●	●	●		●		●	
Dang Van	■[1]	■[1]	■[1]		■[1]			
Safety Factor	●	●	●		●		●	
Adhesive Bond	■[1]	■[1]	■[1]		■[1]			
Crack Growth Linear Fracture Mechanics	■[1]	■[1]	■[1]		■[1]			
Seam Weld	■[1]	■[1]	■[1]		■[1]			
Spot Weld	■[1]	■[1]	■[1]		■[1]			
Thermo-Mechanical Fatigue	■[1]	■[1]	■[1]		■[1]	▲		
Vibration Fatigue	■[1]	■[1]	■[1]		■[1]	●	●	
Short-Fiber Composite Fatigue	■[1]							
Virtual Strain Gauge Correlation	■[1]	■[1]	■[1]		■[1]			
Python Scripting Customization	■[1]	■[1]	■[1]		■[1]	▲		
ELECTRONICS RELIABILITY								
Time-to-Failure (TTF)						●		
Parts Database (geometry, materials)						●		
Laminate Materials (linear, anisotropic)						●		
Solder Database						●		
EXPLICIT DYNAMICS								
FE (Lagrange) Solver	●			●	●			
Euler Solvers				●	●			
Implicit-Explicit Material States	●			●	●			
Mass Scaling	●			●	●			
Natural Fragmentation	●			●	●			
Erosion Based on Multiple Criteria	●			●	●			
De-Zoning				●	●			
Part Activation and Deactivation (Multi Stage Analysis)				●	●			
Explicit Time Integration	●			●	●			

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IMPLICIT DYNAMICS								
Implicit Time Integration	●	●			●	●	●	
GEOMETRIC IDEALIZATION								
Spring	●	●	▲	●	●		●	
Mass	●	●	●	●	●		●	
Damper	●	●		●	●		●	
Spar	●	●	●		●			
Beam	●	●	●	●	●		●	
Cable	●	●	●		●			
Pipe/Elbow	●	●	●					
Shell - Thin	●	●	●	●	●		●	
Layered Shell -Thin (Composite)	●	●		●	●			
Shell - Thick (Solid Shell)	●	●	●		●	●		
Layered Shell - Thick (Solid Shell) (Composite)	●	●	●		●			
2D Plane / Axisymmetric	●	●	●		●		●	
3D Solids	●	●	●		●	●	●	
Layered 3D Solids (Composite)	●	●			●			
Infinite Domain	●	●	●	●	●		●	
2.5D Elements	●	●						
Reinforcement Elements	●	●		●	●	■		
Coupled Field ROM Element Technology	●	●						
Iso-Geometric Analysis (IGA)					●			
GEOMETRY AND STL FILE HANDLING								
SpaceClaim Direct Modeler	●							

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HPC - STRUCTURES								
Default Number of Cores	4 cores (DMP or SMP) MAPDL, 4 for Explicit, 4 for RBD, 4 for AQWA	4 cores (DMP or SMP) MAPDL, 4 for RBD	4 cores (DMP or SMP)	4 cores	1 core	Default Number of cores based on machine being used	1 core	4 cores
Parallel Solving on Local PC and Cluster	●	●	●	●	●	●	●	▲
MAPDL GPU Offload Acceleration	■[6]	■[6]	■[6]					
Ansys Cloud Support	MAPDL - Yes Explicit - No RBD - No AQWA - No	MAPDL - Yes RBD - No	MAPDL - Yes		●	▲		
Hybrid Parallel	●	●	●					
MATERIALS								
Basic Linear Materials (Linear, Anisotropic, Temperature Dependent)	●	●	●	●	●	●	●	
Basic Nonlinear Materials (Hyperelastic, Plasticity, Rate Independent, Isotropic, Concrete, Viscoelasticity)	●	●	▲	●	●		●	
Advanced Nonlinear Materials (Rate dependent, Anisotropic, Damage Models, Geomaterials, Multiphysics, Acoustics)	●			●	●			
Specialty Materials (Glass, Foam, Kevlar, Fabric, Biomechanic, Paper, Cardboard)					●		●	
Field Dependent	●	●		●				
Reactive Materials (Equations of State, High Explosives, Propellants)				●	●			
User Defined Material Model Formulations	●			●	●		●	
Fracture Mechanics and Crack Growth	●				▲			
Materials Multiscale Homogenization	●				●			
Materials Database	■[7]	■[7]	■[7]	■[7]	■[7]	●	■[7]	

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MISCELLANEOUS AND USABILITY								
Ansys SpaceClaim	●	■⁴	■⁴	■⁴	■⁴		■⁴	
Ansys Customization Suite (ACS)	●							
Support ACT Extensions	●	●	●	●	●			
Journaling and Scripting	●	●	●		●	●	▲	
Command Snippet Support	●	●	●					
Batch run capability	●	●	●	●	●	●	●	
Read/Write 3rd Party Matrix CAE Data	●	●		●	●		●	
CDB and 3rd party FE Model Import	●	●	●		●		●	
Nastran Bulk File Export	●	●	●		●			
Direct Input of Nastran Bulk Data Files					●			
Pre-stressing from Nastran Linear Solution					●			
Global/Selective Mass Scaling	●			●	●			
Keyword Input	●	●	●		●			
Splitting of Input File into Subfiles	●	●	●		●			
User Subroutines	●			●	●		●	
Re-mapping	●			●	●			
Transmitting boundaries	●			●	●			
Dynamic Storage Allocation	●	●	●		●			
Extensive Output Data Controls (ascii/binary)	●	●	●		●			
Sense Switch Controls - Monitor Simulations Status	▲	▲	▲		●			
Interactive Real-Time Graphics	●	●	●	●	●			
Double Precision	●	●	●	●	●		●	

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MODELING CAPABILITIES								
Contact - Linear	●	●	●	●	●		●	
Contact - Nonlinear	●	●	●	●	●		●	
Joints	●	●	●	●	●		●	
Seam Welds	●	●	●	●	●		●	
Spot Welds	●	●	●	●			●	
Element Birth and Death	●	●			●		●	
Gasket Elements	●				●			
Rezoning and Adaptive Remeshing	●				●			
Inverse Analysis	●							
MULTI ANALYSIS								
Submodeling	●	●	●		●	▲		
Data Mapping	●	●	●		●		●	
Multiphysics Data Mapping	●	●	▲			▲	●	
Initial State	●	●		●	●		●	
Advanced Multi-Stage 2-D to 3-D Analysis	●	●						
NONLINEAR MULTI-BODY DYNAMICS								
Rigid Body Mechanisms	●	●			●		●	
Rigid Body Dynamics with CMS Components for Flexible Bodies	●						●	
Full Transient	●	●		●	●		●	
CMS with Substructuring	●						●	
Mixed Rigid - Flexible Systems	●	●	●	●	●		●	
Function Expression					●		●	
Drivetrain Creation							●	
Links							●	
Vehicle Dynamics					●		●	

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OPTIMIZATION								
DesignXplorer included	●	●	●	■[3]	■[5]			
Parameters	●	●	●	●	●	▲	●	
Design Point Studies	●	●	●	●	●		●	
Correlation Analysis	●	●	●	●				
Design of Experiments	●	●	●	●			●	
Sensitivity Analysis	●	●	●	●				
Goal Drive Optimization	●	●	●	●				
STRUCTURAL SOLVER CAPABILITIES								
Linear Static	●	●	●		●	●	●	
Nonlinear Static	●	●	●		●		●	
Pre-Stress Effect, Linear Perturbation	●	●	●	▲	▲		●	
Nonlinear Geometry	●	●	●	●	●		●	
Buckling - Linear Eigenvalue	●	●	●		●		●	
Buckling - Nonlinear Post Buckling Behavior	●	●	●		●			
Buckling - Nonlinear Post Buckling Behavior - Arc Length	●	●			●			
Steady State Analysis Applied to a Transient Condition	●				●			
Advanced Wave Loading	●							
THERMAL								
Steady State Thermal	●	●	●		●	▲		
Transient Thermal	●	●	●		●		●	
Conduction	●	●	●	●	●	●	●	
Convection	●	●	●		●			
Radiation to Space	●	●	●		●			
Radiation - Surface to Surface	●	●	●		●			
Phase Change	●	●	●	●	●			
Thermal Analysis of Layered Shells and Solids	●	●	●		●			

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TOPOLOGY AND LATTICE OPTIMIZATION								
Structural Optimization	●	●	●					
Modal Optimization	●	●	●					
Thermal Loads	●	●	●					
Inertial Loads	●	●	●					
Optimized Design Validation	●	●	●					
Manufacturing Constraints	●	●	●					
Stress Constraints	●	●	●					
Symmetry	●	●	●					
Lattice Optimization	●	●	●					
Overhang/Additive Constraints	●	●	●					
PARTICLE METHODS								
Smooth Particle Hydrodynamics (SPH)				●	●			
Smooth Particle Galerkin (SPG)					●			
Corpuscular Particle Method (CPM)					●			
Discrete Element Method (DEM)					●			
AUTOMOTIVE								
Seat-belts - including modeling of accelerometer, pretensioner, retractor, sensor, and slip ring					●			
Inflator Models					●			
Airbag Fabric Constitutive Models					●			
Accelerometers					●			
Airbag Sensors					●			
Airbag Breakout					●			
Eulerian Deployment of Airbags					●			
Airbag Folder					●			
Unfolded Reference Geometry for Airbags					●			

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AUTOMOTIVE										
Dummy Positioner					●					
Side-Impact Dummy Special Damper					●					
Airbag Deployment					●					
METAL STAMPING										
Multi-Stage Forming Process Validation								●		
Material Data Library and Management								●		
Process Definition								●		
Tool Setup and Preview								●		
Drawbead Definition								●		
Multiple Lancing Operation								●		
Stamping Specific Post Processing (FLD, Formability Index, Wrinkling, Skidmark)								●		
Clamping Simulation								●		
Trim Line Development								●		
Blank Line Development								●		
Mesh Check								●		
Automatic or Manual Mesh Repair								●		

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