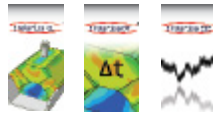


COMPREHENSIVE SOLUTIONS FEATURES GRID



MATERIALS DATABASE

	CL	DT	EIE	fe-safe/Rubber™
MATERIAL MODELS				
Materials database	X	X		X
Hyperelastic laws: NeoHookean, Arruda-Boyce, Mooney-Rivlin, Reduced Polynomial, Van der Waals, Ogden	X	X		X
Mullins Effect	X	X		X
Crack Growth Rate laws: Thomas, Lake-Lindley, table-lookup	X	X		X
Crystallization laws: None, Mars-Fatemi, table lookup	X	X		X
Ozone attack, creep crack growth	X	X		X
Temperature dependence: coefficient or table-lookup	X	X		coefficient only
Hysteresis / Self-heating: powerlaw, Kraus, Table-Lookup	X	X		
PROCEDURES				
Critical plane analysis	X	X		X
Total formulation fatigue solver	X			X
Rainflow counting w/time indices preserved for event identification	X	X		X
Block cycle generation from road loads	X			
Signal defeaturing	X			
Rolling structures (ie tires) with axi- or cyclic- symmetry	X	X		
Periodic results transfers for tires	X	X		
Diagnostics: critical plane vector, load history on critical plane, crack open/close history	X	X		X
Endurica Viewer	X	X		Note 1
Incremental formulation fatigue solver		X		
Ageing	X	X		
Security encryption	X	X		
Block cycle schedules / multi-step protocols		X		Miner's rule
Sequence effects		X		
Restart capability		X		
Stiffness loss cosimulation		X		
Residual life		X		
Digital Twin applications		X	X	
Nonlinear load/displacement->stress/strain map			X	
Auto-generation of FE model boundary conditions for map generation			X	
1, 2 or 3 independent input channels			X	
Mapping methods: Case Vectors, Spiral Grid, User-Defined			X	
Accelerated strain history generation			X	
Multi-threading / parallel processing	X	X	X	X
Damage extrapolation		X		
FE CODES				
Abaqus	X	X	X	X
Ansys	X	X	X	
MSC/Marc	X	X	X	
fe-safe/Rubber			X	
LICENSING				
Node-locked	X	X	X	Available only through Dassault Systems
Network floating	X	X	X	
Annual lease	X	X	X	
Perpetual	X	X	X	
Maintenance and support	X	X	X	
Single site, Regional, Global	X	X	X	

Note 1 - Available as free download from Endurica for licensed fe-safe/Rubber™ users.

2021-09

C-SUITE INSIGHTS

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