

ABAQUS/STANDARD 6.14 DATA SHEET

ANALYSIS TYPES

General, Linear, and Nonlinear Analyses

- Static stress/displacement
- Direct cyclic
- Low-cycle fatigue
- Viscoelastic/viscoplastic response
- Dynamic stress/displacement
- Steady-state transport
- Heat transfer (transient and steady-state)
- Mass diffusion (transient and steady-state)
- Acoustics
- Multiphysics
 - Thermo-electrical-structural
 - Pore-fluid flow-mechanical-thermal
 - Magnetostatic
 - Transient low frequency electromagnetic

Linear Perturbation Analyses

- Static stress/displacement
 - Linear static
 - Eigenvalue buckling
- Dynamic stress/displacement
 - Natural frequency extraction
 - Complex eigenvalue extraction
 - Steady-state dynamics (direct and mode-based)
 - Transient modal dynamics
 - Response spectrum
 - Random response
- Time-harmonic low frequency electromagnetic

ANALYSIS AND MODELING TECHNIQUES

- Import
- Restart
- Substructuring
- Flexible Body Generation
- Submodeling

- Material removal and addition
- Mesh-to-mesh solution mapping
- Adaptive remeshing
- Fracture mechanics (including VCCT)
- Symmetric model generation and results transfer
- Cyclic symmetry
- Isertia relief
- Nonstructural mass
- Direct matrix input
- Cosimulation
- Automatic resolution of overconstraints
- Data parametrization and parametric studies
- Automatic perturbation of geometry
- Local degrees of freedom
- Hydrostatic fluid cavities
- Annealing
- Reinforcements
- Embedded elements
- Elastic formulation
- Meshed beam cross sections
- Rigid, display, and isothermal bodies

SOLUTION TECHNIQUES

- Parallel execution on both shared memory and distributed memory parallel (cluster) systems
- Parallel direct sparse solver with dynamic load balancing
- Parallel iterative solver
- Parallel Lanczos eigenvalue solution
- Parallel RMS eigenvalue solution
- Parallel element operations
- Multiple load cases
- Full Newton and quasi-Newton methods
- GPGPU accelerated sparse solver

MATERIAL DEFINITIONS

Elastic Mechanical Properties

- Linear elasticity
- Orthotropic and anisotropic linear elasticity
- Porous elasticity
- Hypoelasticity
- Hyperelasticity (including permanent set)
- Anisotropic hyperelasticity
- Elastomeric foam
- Mullins effect
- Viscoelasticity
- Nonlinear viscoelasticity
- Hysteresis

Inelastic Mechanical Properties

- Metal plasticity
 - Isotropic and anisotropic yield criteria
 - Isotropic, kinematic, and ORNL hardening
 - Porous metal plasticity
 - Cast iron
 - Two-stage viscoplasticity
 - Creep
 - Volumetric swelling
 - Deformation plasticity
 - Johnson-Cook plasticity
- Extended Drucker-Prager plasticity
- Capped Drucker-Prager plasticity
- Cam-Clay plasticity
- Mohr-Coulomb plasticity
- Crushable foam plasticity
- Jointed materials
- Concrete
- Progressive damage and failure
 - Ductile
 - Shear
 - Forming limit diagram (FLD)
 - Forming limit stress diagram (FLSD)
 - Mushchenko-Sonne forming limit diagram (MSFLD)
 - Hashin unidirectional composite

Additional Material Properties

- Density
- Material damping
- Thermal expansion
- Thermal and electrical conductivity
- Specific heat
- Latent heat
- Damage and failure for fiber-reinforced composites
- Acoustic medium properties
 - Bulk modulus
 - Volumetric drag
- Pore acoustic medium
 - Delany-Bazley
 - Mik
- Hydrostatic fluid properties
- Hydraulic fluids
- Pneumatic fluids
- Mass diffusion properties
 - Diffusivity
 - Solubility
- Pore fluid flow properties
 - Permeability
 - Porous bulk moduli
 - Absorption/desorption
 - Swelling gel
 - Moisture swelling
- Uper materials
- Electromagnetic properties
 - Piezoelectric behavior
 - Magnetic permeability (with nonlinear B-H behavior)
 - Permanent magnet
 - Electrical conductivity

ELEMENT LIBRARY

Continuum

- Stress analysis
 - 2-D (plane stress, plane strain, and generalized plane strain)
 - 3-D (regular and variable node)
- Cylindrical
- Axisymmetric (with and without twist)
- Axisymmetric with nonlinear, asymmetric deformation
- Infinite
- Warping

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Table of Contents Abaqus Standard 6 14 Data Sheet Krabbenh Ft

1. Understanding the eBook Abaqus Standard 6 14 Data Sheet Krabbenh Ft
 - The Rise of Digital Reading Abaqus Standard 6 14 Data Sheet Krabbenh Ft
 - Advantages of eBooks Over Traditional Books
2. Identifying Abaqus Standard 6 14 Data Sheet Krabbenh Ft
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Abaqus Standard 6 14 Data Sheet Krabbenh Ft
 - User-Friendly Interface
4. Exploring eBook Recommendations from Abaqus Standard 6 14 Data Sheet Krabbenh Ft
 - Personalized Recommendations
 - Abaqus Standard 6 14 Data Sheet Krabbenh Ft User Reviews and Ratings
 - Abaqus Standard 6 14 Data Sheet Krabbenh Ft and Bestseller Lists
5. Accessing Abaqus Standard 6 14 Data Sheet Krabbenh Ft Free and Paid eBooks
 - Abaqus Standard 6 14 Data Sheet Krabbenh Ft Public Domain eBooks
 - Abaqus Standard 6 14 Data Sheet Krabbenh Ft eBook Subscription Services
 - Abaqus Standard 6 14 Data Sheet Krabbenh Ft Budget-Friendly Options

6. Navigating Abaqus Standard 6 14 Data Sheet Krabbenh Ft eBook Formats
 - ePub, PDF, MOBI, and More
 - Abaqus Standard 6 14 Data Sheet Krabbenh Ft Compatibility with Devices
 - Abaqus Standard 6 14 Data Sheet Krabbenh Ft Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Abaqus Standard 6 14 Data Sheet Krabbenh Ft
 - Highlighting and Note-Taking Abaqus Standard 6 14 Data Sheet Krabbenh Ft
 - Interactive Elements Abaqus Standard 6 14 Data Sheet Krabbenh Ft
8. Staying Engaged with Abaqus Standard 6 14 Data Sheet Krabbenh Ft
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Abaqus Standard 6 14 Data Sheet Krabbenh Ft
9. Balancing eBooks and Physical Books Abaqus Standard 6 14 Data Sheet Krabbenh Ft
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Abaqus Standard 6 14 Data Sheet Krabbenh Ft
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Abaqus Standard 6 14 Data Sheet Krabbenh Ft
 - Setting Reading Goals Abaqus Standard 6 14 Data Sheet Krabbenh Ft
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Abaqus Standard 6 14 Data Sheet Krabbenh Ft
 - Fact-Checking eBook Content of Abaqus Standard 6 14 Data Sheet Krabbenh Ft
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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