

ABAQUS

Version 6.6 Documentation

ABAQUS Analysis User's Manual

Search

ABAQUS Analysis

- ◆ Introduction, Sp
- ◆ Output
- ◆ Analysis Proce
- ◆ Analysis Techni
- ◆ Materials
- ◆ 16 Materials:
- ◆ 17 Elastic Me
- ◆ 18 Inelastic M
- ◆ 18.1 Over
- ◆ 18.2 Meta
- ◆ 18.2.1
- ◆ 18.2.2
- ◆ 18.2.3
- ◆ 18.2.4
- ◆ 18.2.5
- ◆ 18.2.6
- ◆ 18.2.7
- ◆ 18.2.8
- ◆ 18.2.9
- ◆ 18.2.10
- ◆ 18.2.11
- ◆ 18.2.12
- ◆ 18.2.13
- ◆ 18.3 Other
- ◆ 18.4 Joint
- ◆ 18.5 Conc
- ◆ 19 Progressi
- ◆ 20 Other Mat
- ◆ Elements
- ◆ Prescribed Con
- ◆ Constraints
- ◆ Interactions
- ◆ Element Index

18.2.2 Models for metals subjected to cyclic loading

Products: ABAQUS/Standard ABAQUS/Explicit ABAQUS/CAE

References

- ["Material library: overview," Section 16.1.1](#)
- ["Inelastic behavior," Section 18.1.1](#)
- ["Anisotropic yield/creep," Section 18.2.6](#)
- ["UHARD," Section 1.1.26 of the ABAQUS User Subroutines Reference Manual](#)
- [*CYCLIC HARDENING](#)
- [*PLASTIC](#)
- [*POTENTIAL](#)

Overview

The kinematic hardening models:

- are used to simulate the inelastic behavior of materials that are subjected to cyclic loading;
- include a linear kinematic hardening model and a nonlinear isotropic/kinematic hardening model;
- can be used in any procedure that uses elements with displacement degrees of freedom;
- in ABAQUS/Standard cannot be used in adiabatic analyses, and the nonlinear isotropic/kinematic hardening model cannot be used in coupled temperature-displacement analyses;
- can be used to model rate-dependent yield;
- can be used with creep and swelling in ABAQUS/Standard; and
- require the use of the linear elasticity material model to define the elastic part of the response.

Yield surfaces

The kinematic hardening models used to model the behavior of metals subjected to cyclic loading are pressure-independent plasticity models; in other words, yielding of the metals is independent of the equivalent pressure stress. These models are suited for most metals subjected to cyclic loading conditions, except voided metals. The linear kinematic hardening model can be used with the Mises or Hill yield surface. The nonlinear isotropic/kinematic model can be used only with the Mises yield surface in

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Table of Contents Abaqus 610 User Manual

1. Understanding the eBook Abaqus 610 User Manual
 - The Rise of Digital Reading Abaqus 610 User Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Abaqus 610 User Manual
 - 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 610 User Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Abaqus 610 User Manual
 - Personalized Recommendations
 - Abaqus 610 User Manual User Reviews and Ratings
 - Abaqus 610 User Manual and Bestseller Lists

5. Accessing Abaqus 610 User Manual Free and Paid eBooks
 - Abaqus 610 User Manual Public Domain eBooks
 - Abaqus 610 User Manual eBook Subscription Services
 - Abaqus 610 User Manual Budget-Friendly Options
6. Navigating Abaqus 610 User Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Abaqus 610 User Manual Compatibility with Devices
 - Abaqus 610 User Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Abaqus 610 User Manual
 - Highlighting and Note-Taking Abaqus 610 User Manual
 - Interactive Elements Abaqus 610 User Manual
8. Staying Engaged with Abaqus 610 User Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Abaqus 610 User Manual
9. Balancing eBooks and Physical Books Abaqus 610 User Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Abaqus 610 User Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Abaqus 610 User Manual
 - Setting Reading Goals Abaqus 610 User Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Abaqus 610 User Manual
 - Fact-Checking eBook Content of Abaqus 610 User Manual
 - 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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web found in varied wooded and scrubby habitats typically with shady understory winters in similarly varied tangled habitats typically rather shy and elusive a plain brown bird with a pale eyering and rusty brown tail best known for its rich powerful song which can keep people awake when given at night

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