

# ABAQUS

Version 6.6 Documentation

ABAQUS Analysis User's Manual

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## 18.2.2 Models for metals subjected to cyclic loading

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**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](#)
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**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.

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**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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**Marc J. Anglada, E. Jiménez-Piqué, P.  
Hvizdoš**



## **Abaqus 69 User Manual:**

Constitutive Models for Rubber IV Per-Erik Austrell, Leif Kari, 2017-12-04 The unique properties of elastomeric materials offer numerous advantages in many engineering applications Elastomeric units are used as couplings or mountings between rigid components for example in shock absorbers vibration insulators flexible joints seals and suspensions etc However the complicated nature of the behaviour of such material makes it difficult to accurately predict the performance of these units using finite element modelling for example It is imperative that constitutive models accurately capture relevant aspects of mechanical behaviour The latest developments concerning constitutive modelling of rubber is collected in these Proceedings Topics included in this volume are Hyperelastic models Strength fracture fatigue Dynamic properties the Fletcher Gent effect Micro mechanical statistical approaches Stress softening iscoelasticity Filler reinforcement and Tyres fibre cord reinforced rubber

**Selected Optimization Problems in Structural Mechanics** Jungsun Park, 1993

**Sheet Metal Meso- and Microforming and Their Industrial Applications** Xin Min Lai, Ming Wang Fu, Lin Fa Peng, 2018-08-06 The book presents a compilation of research on meso microforming processes and offers systematic and holistic knowledge for the physical realization of developed processes It discusses practical applications in fabrication of meso microscale metallic sheet metal parts via sheet metal meso microforming In addition the book provides extensive and informative illustrations tables case studies photos and figures to convey knowledge of sheet metal meso microforming for fabrication of meso microscale sheet metal products in an illustrated manner Key Features Presents complete analysis and discussion of micro sheet metal forming processes Guides reader across the mechanics failures prediction of failures and tooling and prospective applications Discusses definitions of multi scaled metal forming sheet metal meso microforming and the challenges in such domains Includes meso micro scaled sheet metal parts design from a micro manufacturability perspective process determination tooling design product quality analysis insurance and control Covers industrial application and examples

*Significant Issues in Proof Testing*, 1994

Significant Issues in Proof Testing: A Critical Appraisal G. G. Chell, 1994

**Hydraulic and Civil Engineering Technology VIII** Mijia Yang, Pijush Samui, João C.G. Lanzinha, Jianhui Hu, 2023-12-15 All of us are dependent on a built environment constructed and maintained by civil and hydraulic engineers and for those working in these fields keeping up to date with the latest technological developments is vital for the safe and efficient design and operation of this infrastructure This book presents the proceedings of HCET 2023 the 8th International Technical Conference on Frontiers of Hydraulic and Civil Engineering Technology held from 25-27 September 2023 in Wuhan China HCET is an international conference which aims to enhance the development of hydraulic and civil engineering in China with a focus on high end intelligent and green technologies It seeks to do this by consolidating global wisdom and achievements and providing scientific support HCET also offers an excellent opportunity for scientists researchers and engineers from around the world to exchange their findings and discuss developments establishing a basis for national and international

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ABAQUS/Explicit User's Manual Hibbitt, Karlsson and Sorensen, Inc.,2002      *Layered, Functional Gradient Ceramics, and Thermal Barrier Coatings* Marc J. Anglada,E. Jiménez-Piqué,P. Hvizdoš,2007 This special topic collection is intended to showcase the very latest knowhow concerning the design fabrication and reliability of layered ceramics ceramic coatings and functionality graded ceramics It presents an overview of the fundamentals involved in this area as well as an insight into the critical issues and future perspectives touching these materials The 30 contributions cover the pivotal topics of the design and processing of multilayers functionally graded materials structural integrity of multilayers thermal barrier coatings processing and lifetime assessment fatigue damping and high temperature behaviour of coatings and multilayers Truly essential reading      *Maintenance, Safety, Risk, Management and Life-Cycle Performance of Bridges* Nigel Powers,Dan M. Frangopol,Riadh Al-Mahaidi,Colin Caprani,2018-07-04 Maintenance Safety Risk Management and Life Cycle Performance of Bridges contains lectures and papers presented at the Ninth International Conference on Bridge Maintenance Safety and Management IABMAS 2018 held in Melbourne Australia 9-13 July 2018 This volume consists of a book of extended abstracts and a USB card containing the full papers of 393 contributions presented at IABMAS 2018 including the T Y Lin Lecture 10 Keynote Lectures and 382 technical papers from 40 countries The contributions presented at IABMAS 2018 deal with the state of the art as well as emerging concepts and innovative applications related to the main aspects of bridge maintenance safety risk management and life cycle performance Major topics include new design methods bridge codes heavy vehicle and load models bridge management systems prediction of future traffic models service life prediction residual service life sustainability and life cycle assessments maintenance strategies bridge diagnostics health monitoring non destructive testing field testing safety and serviceability assessment and evaluation damage identification deterioration modelling repair and retrofitting strategies bridge reliability fatigue and corrosion extreme loads advanced experimental simulations and advanced computer simulations among others This volume provides both an up to date overview of the field of bridge engineering and significant contributions to the process of more rational decision making on bridge maintenance safety risk management and life cycle performance of bridges for the purpose of enhancing the welfare of society The Editors hope that these Proceedings will serve as a valuable reference to all concerned with bridge structure and infrastructure systems including students

researchers and engineers from all areas of bridge engineering      **Advances in Fracture and Damage Mechanics VI**  
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 Evaluation Division : and the ASME Pressure Vessels and Piping Division--2006* ,2007      ABAQUS/Explicit User's Manual  
 ,1998      **Materials Structure & Micromechanics of Fracture VII** Pavel Šandera, 2013-11-15 Selected peer reviewed  
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 Industry and Manufacturing Engineering MEIME 2012 June 23-24 2012 Hefei China      **ABAQUS/Explicit User's Manual**  
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 decade and the rapid development of computational technology have provided the opportunity to develop and apply 3D  
 numerical modeling technology to simulate the hydraulic fracturing of shale and tight sand formations This book presents 3D  
 numerical modeling technologies for hydraulic fracturing developed in recent years and introduces solutions to various 3D  
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 In practice hydraulic fracturing is an essential project component in shale gas oil development and tight sand oil and  
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