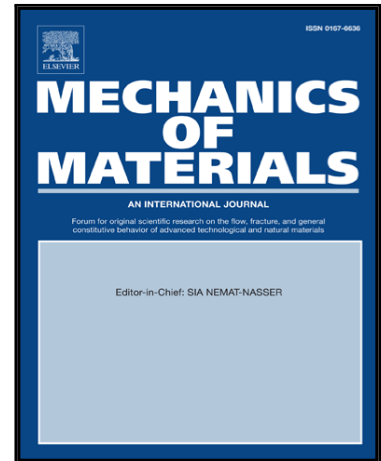


Accepted Manuscript

Predictions of Cyclic Yielding Behavior of Solids Based on a Nonequilibrium Thermodynamic Theory

Zhichao Zhang

PII: S0167-6636(17)30194-1
DOI: [10.1016/j.mechmat.2017.12.011](https://doi.org/10.1016/j.mechmat.2017.12.011)
Reference: MECMAT 2835



To appear in: *Mechanics of Materials*

Received date: 14 March 2017
Revised date: 26 December 2017
Accepted date: 29 December 2017

Please cite this article as: Zhichao Zhang , Predictions of Cyclic Yielding Behavior of Solids Based on a Nonequilibrium Thermodynamic Theory, *Mechanics of Materials* (2017), doi: [10.1016/j.mechmat.2017.12.011](https://doi.org/10.1016/j.mechmat.2017.12.011)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- Stability of thermodynamic steady state determines the yield behavior of solids.
- Yield criteria of different solids are derived combining with Lyapunov theory.
- Kinetic hardening of solids depends on the evolution of residual stress/strain.
- Yield surface hardening and multi-axial fatigue behavior are well predicted.

ACCEPTED MANUSCRIPT

متن کامل مقاله

دریافت فوری ←

ISIArticles

مرجع مقالات تخصصی ایران

- ✓ امکان دانلود نسخه تمام متن مقالات انگلیسی
- ✓ امکان دانلود نسخه ترجمه شده مقالات
- ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
- ✓ امکان دانلود رایگان ۲ صفحه اول هر مقاله
- ✓ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
- ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات