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In#uence of microstructure on adiabatic shear localization of pre-twisted tungsten heavy alloys Zhigang Wei, Jilin Yu*, Shisheng Hu, ... the sensitivity of the adiabatic shear localization to the microstructure parameters, such as the shape and the orientations of the W-grains. A combined compression/shear testing method

In uence of microstructure on adiabatic shear localization

The Paperback of the Adiabatic Shear Localization: Frontiers and Advances by Bradley Dodd at Barnes & Noble. FREE Shipping on \$35.0 or more! ... Adiabatic Shear Localization: Frontiers and Advances. by Bradley Dodd (Editor), Yilong Bai (Editor) ... Adiabatic shear localization is a mode of failure that occurs in dynamic loading. It is ...

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A DIFFERENT VIEWPOINT ON ADIABATIC SHEAR LOCALIZATION D. Rittel Faculty of Mechanical Engineering Technion, 32000 Haifa, Israel merittel@technion.ac.il ABSTRACT This short review addresses the adiabatic shear failure mechanism (ASB) in metals subjected to high strain-rate deformations. ASB is usually considered as an instability

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C. Means of Promoting Shear Localization in Heavy Alloys It is our opinion that tungsten heavy alloys do have the potential (not yet optimized) for unstable, possibly adiabatic, shear. In support of this hypothesis is the observed deformation caused by uniaxially compressing a standard 90W-7Ni-3Fe alloy to 55% strain at a strain rate of 5500 sl.

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Calculation of temperature in shear localization zone. Temperature rising in an adiabatic shear band associated with the deformation plays a significant role in the study of microstructure mechanism and is calculated by the following equation , .

Adiabatic shear localization in a near beta Tiâ€“5Alâ€“5Moâ€“5 V

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Adiabatic shear localization in the CrMnFeCoNi high-entropy alloy Zezhou Li a, Shiteng Zhao a, Senhat M. Alotaibi a, Yong Liu b, Bingfeng Wang b, ... adiabatic shear localization is recognized as an important failure mechanism of materials and is produced by the temperature rise in

Adiabatic shear localization in the CrMnFeCoNi high

A different viewpoint on adiabatic shear localization D Rittel Faculty of Mechanical Engineering, Technion, 32000 Haifa, Israel E-mail: merittel@technion.ac.il ... adiabatic shear band forms, is indeed simple and convenient as a failure criterion. One would therefore expect that 2.

A different viewpoint on adiabatic shear localization

Adiabatic shear failure is a well-documented dynamic failure mode in which failure proceeds by shear localization in a narrow plane (Bai and Dodd, 1992; Tresca, 1879), referred to as an adiabatic shear band (ASB).

Modeling adiabatic shear failure from energy considerations

The physics and mathematics of adiabatic shear bands / by T.W. Wright. p. cm. (Cambridge monographs on mechanics) ... adiabatic shear bands have for the predictive accuracy of numerical analysis and computational design. ... problems of shear localization can be most fruitfully explored. The remainder

THE PHYSICS AND MATHEMATICS OF ADIABATIC SHEAR BANDS - Assets

SHEAR LOCALIZATION IN VISCOPLASTIC SOLIDS KWON HEE KIM ... mal effects and the shear bands that form are called "adiabatic shear bands". In either case, the process of shear banding is an autocatalytic one : ... treat shear localization as material instability, however, ...

Shear Localization in Viscoplastic Solids

Shear Localization in Dynamic Deformation: Microstructural Evolution YONGBO XU, JINGHUA ZHANG, YILONG BAI, and MARC ANDRÉ MEYERS ... shear localization when deformed at low strain rates ... structural aspects of the adiabatic shear localization generated under an imposed strain rate range of 103 to

Shear Localization in Dynamic Deformation: Microstructural

Analysis of shear localization General theory of stability and localization Role in armaments and ballistics Shear Stress-Strain Measurements - Steels Culver 1973 (9) Costin et al. 1979 (10) Lindholm and Hargreaves 1976 (11,12) Walker and Shaw 1969 (13) Luong 1977 (14, 15) Adiabatic torsion, mild steel

AMMRC TR 82-48 A /J.}~t5

Adiabatic shear localization is a catastrophic failure mechanism which can occur in ductile metals under high strain rate loading. This mechanism is driven by a thermal instability process in which rapid temperature rise due to plastic work couples with thermal softening to cause uniform deformation ...

Adiabatic Shear in annealed and shock-hardened iron and in

July 16, 2014 15:43 9in x 6in Introduction to Adiabatic Shear Localization b1700-app 364 Introduction to Adiabatic Shear Localization $\hat{\sigma} = \hat{\sigma}_0 + \hat{\sigma}_1 \hat{\epsilon}^m - \hat{\sigma}_2 \hat{\epsilon}^n$ (7.30) $\hat{\sigma} = \hat{\sigma}_0 + \hat{\sigma}_1 \hat{\epsilon}^m - \hat{\sigma}_2 \hat{\epsilon}^n$ (7.35) 4.

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Shear localization in dynamic deformation of copper single crystals S. X. LI*, R. Q. YANG, J. W. LI and Z. F. ZHANG ... the adiabatic shear bands (ASBs) were examined in a light ... Dynamic shear localization is also observed on the scale of single crystals [27, 28].

Shear localization in dynamic deformation of copper single

The effects of geometry on strain localization and adiabatic shear banding in both alloys were investigated by subjecting cylindrical-, cubical-, and truncated conical-shaped specimens to high velocity impact.

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Adiabatic Shear Failure and Dynamic Stored Energy of Cold Work

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Uniform shearing vs. shear band Localization of plastic strain in narrow band Elevated temperature inside the band. Modeling of shear bands IMA - Jul 09 - Adiabatic Shear Bands $\hat{\sigma} = \hat{\sigma}_0 + \hat{\sigma}_1 \hat{\epsilon}^m - \hat{\sigma}_2 \hat{\epsilon}^n$ 6 / 37 Adiabatic plastic shearing of an infinite plate occupying the region between the planes $x = 0$ and $x = d$. $0 < x < d$

Adiabatic Shear Bands - Institute for Mathematics and its

Z. Wei et al. /International Journal of Impact Engineering 26 (2001) 843-852 847 inspection. Break-up Specimens. To further investigate the adiabatic shear localization and failure mechanism, some impact tests with higher kinetic energy were conducted.

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Adiabatic shear band localization fracture of solids in dynamic loading processes P. Perzyna Centre of Mechanics, Institute of Fundamental Technological Research, Polish Academy of Science, Swietokrzyska 21, 00-049 Warsaw, Poland The main objective of the present paper is the application of a recently developed ...

Adiabatic shear band localization fracture of solids in

of, and the interaction among, adiabatic shear bands. A shear band is assumed to have formed if the addition of a perturbation to the homogeneous fields just before the peak stress is reached results in a localization of the shear strain. The effect of adding perturbations of different sizes

THE INITIATION AND GROWTH OF, AND THE INTERACTION AMONG

Effect of Preloading on the Formation of Adiabatic Localized Shear in Copper ... prone to adiabatic shear, including cases of very high strain rate. In general, it is believed that materials with ... high strength and low strain hardening ability have a greater tendency to adiabatic shear band localization.

Effect of Preloading on the Formation of Adiabatic Localized

localization. This is generally studied as adiabatic localization in the literature and has been observed in metals, granular materials, ceramics, and polymers [38]. Thermal effects on strain localization were first studied in metals, where significant heat has been observed to be produced within shear bands deforming at high strain rates [39 ...

Thermoplasticity and strain localization in transversely

one-dimensional thermo-mechanical model for adiabatic strain softening and the accompanying adiabatic shear localization. The results obtained show that the minimal impact particles velocity needed to produce shear localization at the particles/substrate ... M. Grujicic et al. / Materials and Design 25 (2004) 681–688 683 ...

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