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Toughness Kic Data

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TOUGHNESS (KIC) DATA HANDBOOK FOR
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**AD-773 673 PLANE STRAIN
FRACTURE TOUGHNESS (KIC) DATA**

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AD-773 673, "Plane Strain Fracture Toughness (KIC) Data Handbook for Metals," Army Materials and Mechanics Research Center, December 1973 AFRL-VA-WP-TR-2003-3002, "USAF Damage Tolerant Design Handbook: Guidelines for the Analysis and Design of Damage Tolerant Aircraft Structures," November

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Fracture Materials Database | MechaniCalc

2.2. Plane strain compression testing. All specimens were plane strain compression tested in duplicate using the Servotest PSC-machine at the University of Sheffield . The PSC tests

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were carried out at temperatures of 673 or 773 K, at an equivalent tensile strain rate of 40 s^{-1} , and to an equivalent

The effect of β , β' and β'' precipitates in a homogenised ...

An experimental program was conducted to determine the plane strain fracture toughness (K_{IC}) of the

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following classes of: (1) AISI Alloy Steels (4340, 4140); (2) 5Cr-Mo-V Steels; (3) Precipitation-Hardening Stainless Steels (17-7 PH, PH 15-7 Mo, 17-4, AM355); (4) Titanium Alloy, Ti-6Al-4V. The precracked notched bend test was used as the ...

DTIC AD0821626: PLANE STRAIN

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FRACTURE TOUGHNESS DATA FOR

...

Electron-backscattered diffraction (EBSD) has been used to investigate the texture evolution during tensile deformation at temperatures between 673 and 773 K of a coarse-grained commercial AZ31 magnesium alloy. A weak (0001) fiber texture was initially

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present in the hot-rolled magnesium alloy plate.

An electron-backscattered diffraction study of the texture ...

The true stress-true strain curves by the tensile and compressive tests for the 773 K extrusion are shown in Fig. 3, where (a) is the s-s curves at room

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temperature and (b) is the s-s curves at 673 K. The tensile yield stress at room temperature was about three times larger than the compressive yield stress at room temperature.

Mechanical anisotropy due to twinning in an extruded AZ31 ...

The in-plane order spots became

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sharper with annealing time, suggesting that the domain size of the ordered region within the segregated layer increased.[] Figure 3 shows the temporal change of the domain size of the in-plane ordered region at the annealing temperatures of 673 K and 773 K (400 °C and 500 °C) and the lattice constant of the order structure.

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B6673 (JBU673) JetBlue Flight Tracking and History ...

The reduction in surface roughness of CFA/Ta thin films with an increase in T_s

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in the RT - 673 K range is associated with the increase in the ad-atom mobility and strain relaxation. The increase in...

Growth of Co₂FeAl Heusler alloy thin films on Si(100) ...

AD-773 551 CH-54A DESIGN AND OPERATIONAL FLIGHT LOADS STUDY A.

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L. Mongillo, Jr., et al United Aircraft Corporation Prepared for: Army Air Mobility Research and Development Laboratory November 1973 urn

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BOE773 Boeing Flight Tracking and History - FlightAware

based his report on a survey of 673 wire

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breaks. The report concludes that 52%, 13%, 13%, 5%, 5%, and 12% are attributable to inclusion, central ...

Coulomb and plane strain (large deformation), respectively. The authors assumed that the wire and the inclusion matrix were joined at the boundary during the process.

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Chevron Crack Initiation in Multi-Pass Drawing of ...

Fei Xiao's 34 research works with 388 citations and 773 reads, including:
Shape memory effect associated with successive FCC-FCT-BCT martensitic transformation in single-crystalline Fe-Pd alloy

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**Fei Xiao's research works |
Shanghai Jiao Tong University ...**

T.G. Langdon's 236 research works with
13,677 citations and 12,895 reads,
including: Influence of grain boundary
misorientations on the mechanical
behavior of a near- α Ti-6Al-7Nb alloy
processed ...

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**T.G. Langdon's research works |
University of Southampton ...**

The yielding transition in soft materials manifests macroscopically as a reversible transition from solid-like deformation to liquid-like flow under sufficiently large loading or deformation. Despite the ubiquity of materials that exhibit yielding, an understanding of the

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transition has remained elusive due to experimental limitations of the simple rheological tests typically used to study it.

Elucidating the G'' overshoot in soft materials with a ...

Flight status, tracking, and historical data for LATAM 773 (LA773/LAN773)

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Plane Strain Fracture

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including scheduled, estimated, and actual departure and arrival times.

LA773 (LAN773) LATAM Flight Tracking and History - FlightAware

Fluid Mech. 30, 741 - 773. Landahl, M. T. 1977 Dynamics of boundary layer turbulence and the mechanism of drag reduction. ... Fluid Mech. 68, 673 ... A. J.

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1968 The distortion of turbulence by irrotational plane strain. J.

Structure of turbulence at high shear rate | Journal of ...

bulk strain energy considerations, α_2, α_4 and the role of thermodynamic parameters of alloys. 25'26 Microscopic electronic theories were also applied to

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explain Cu enrichment, 27 as were semiempirical methods [the embedded-atom method (EAM) (Ref. 28)] and Monte Carlo techniques, 29³° which also provided information on cluster-

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