

Contents

Acta Universitatis Carolinae. Mathematica et Physica, Vol. 32 (1991), No. 1, [1]--[2]

Persistent URL: <http://dml.cz/dmlcz/142616>

Terms of use:

© Univerzita Karlova v Praze, 1991

Institute of Mathematics of the Academy of Sciences of the Czech Republic provides access to digitized documents strictly for personal use. Each copy of any part of this document must contain these *Terms of use*.



This paper has been digitized, optimized for electronic delivery and stamped with digital signature within the project *DML-CZ: The Czech Digital Mathematics Library* <http://project.dml.cz>

ACTA UNIVERSITATIS CAROLINAE
MATHEMATICA ET PHYSICA

Vol. 32, No. 1. 1991

ISSN 0001-7140



Contents

P. Málek, P. Vostrý, M. Čepová, O. Drábová, I. Stulíková, P. Šittner: Structure Changes in a Single-Phase Superplastic Zn-Cd Alloy.....	9
N. Q. Chinh, A. Juhász, P. Tasnádi, I. Kovács: Experimental Evaluation of the Strain Rate Sensitivity Parameter for Superplastic Materials.....	17
N. A. Yorokhov, D. A. Teplitsky, Yu. F. Titovets, E. L. Archak: Grain Boundaries of Primary Crystallization	25
P. Šittner, Zao Jing: TEM Observation of Dislocation Behavior near Grain Boundaries in Deformed Fe-2wt.%Si Bicrystals.....	31
B. Strnadel, E. Mazancová, K. Mazanec: Statistical Aspects of Ductile Fracture Propagation and the Conditions of the Conversion Ductile into Cleavage Fracture.....	41
F. Appel, U. Messerschmidt: The Contribution of Dipole Mechanisms to the Flow Stress and Work Hardening.....	47
A. Dlouhý: Slip Processes in Non-Uniformly Distributed Dislocation Structures.....	53
F. Chmelík, Z. Trojanová, Z. Přerovský, P. Lukáč, E. Pink: Acoustic Emission from Al-3%Mg Alloy Deformed at Room Temperature.....	61
Z. Trojanová, P. Lukáč, M. Hamerský: Dynamic Strain Ageing in Alpha Titanium.....	69
A. M. Dolgin, V. D. Natsik: Criteria of Instability and Kinetics of Jumps under Unstable Low Temperature Plastic Flow.....	77
V. Novák, P. Šittner: Stability of Dislocation Structure during Plastic Deformation of B.C.C. Metals	89
J. Klíber, I. Schindler: Description of Stress-Strain Curves on High Temperature Deformed Steels	95
N. Q. Chinh, A. Juhász, P. Tasnádi, I. Kovács: High Temperature Mechanical Properties of High Purity Al and Dilute Al-Si Alloys	103
G. Dlubek, K. Pawelzyk, W. Heyroth: Positron Studies of Precipitation Phenomena in Rapidly Solidified Al Alloys.....	113

<i>O. Drdová, P. Vostrý, F. Pešek, B. Smola: Precipitation Effects in Cu-Ni-Sn and Cu-Ti Alloys</i>	119
<i>A. Puškár: Critical Strain Amplitudes, Elasticity Modulus Defect and Fatigue Life.....</i>	125
<i>L. S. Fomenko, H.-J. Kaufmann, S. V. Lubenets, V. D. Natsik, T. S. Orlova, N. N. Peschanskaya, V. V. Shpeizman, B. I. Smirnov: Microplasticity of High T_c Superconductors in the Temperature Range 77–300 K.....</i>	131
<i>L. S. Fomenko, H.-J. Kaufmann, S. V. Lubenets, E. I. Ostapchuk: Temperature Dependences of the Effective and Internal Stresses at the Initial Stages of Plastic Deformation of the LiF Single Crystals. Macrodeformation and Dislocation Mobility Data.....</i>	139