

Table of Contents

Diffusion of Ga Implanted into α-Ti Studied by Means of the Rutherford Backscattering Technique	
M. Behar, J.H.R. dos Santos, F. Bernardi and F. Dymont	1
Structural Characterization of Nanostructured Ni₃Al Processed by Inert Gas Condensation	
M. Yandouzi, B. Pauwels, D. Schryvers, H. Van Swygenhoven and G. Van Tendeloo	19
Vacancy Diffusion in Non-Symmetrical Grain Boundaries in α-Zr	
J.R. Fernández	31
The Influence of Hydrogen Treatment upon the Atomic Ordering and Physico-Mechanical Properties of Ni-Mo(W)-Re Alloys	
V.V. Fedorov, E.V. Dyomina, I.I. Bulyk, P.V. Basistyi, M.D. Prusakova and N.A. Vinogradova	37
Intrinsic and 'Extrinsic' Mechanisms of the Volume Diffusion of Gold in Iridium Single Crystals	
A.V. Ermakov, S.M. Klotsman, G.N. Tatarinova, S.A. Matveev, A.N. Timofeyev, V.K. Rudenko, N.I. Timofeev and G.F. Kuzmenko	45
Thermal Stability of Deformation Twins in γ'-Strengthened Alloy 718	
M. Sundararaman and P. Mukhopadhyay	61
Effects of Alloying Elements on Discontinuous Precipitation in Cu-0.75wt%Be Alloy Bicrystals	
R. Monzen, H. Shigehara and K. Murase	75
Direct Molecular Dynamics Observations of Bulk and Grain Boundary Diffusion in NiAl	
D. Farkas and B. Soulé de Bas	83
The Six-Jump Cycle Diffusion Mechanism in Non-Stoichiometric B2 Intermetallics: the Vacancy-Wind Factor	
I.V. Belova and G.E. Murch	95
Point Defects in FeAl Studied by Perturbed Angular Correlation	
G.S. Collins, L.S.J. Peng and M.O. Zacate	107
Self-Diffusion of Titanium in Single-Crystalline γ-TiAl	
T. Ikeda and H. Nakajima	133
Collection of Data on Positron Lifetimes and Vacancy Formation Energies of the Elements of the Periodic Table	
J.M. Campillo Robles and F. Plazaola	141
Abstracts	1