

Table of Contents

Foreword

Evidence for Soliton Dynamics in Alkali Adlayers on Transition Metals C. Kleint	1
Investigation of Surface Diffusion by Analysis of Field Emission Current Fluctuations J. Beben	17
The Cross-Correlation Function of Field Emission Flicker Noise and its Applications to Surface Diffusion A.M. Dabrowski	39
Critical Review of Surface Diffusion Parameters of Potassium on Tungsten R. Meclowski	49
Work Function, Structure and Phase Transitions of Lithium on Tungsten T. Biernat	61
Structure Determination of Crystal Surfaces by Electron Diffraction C. Ammer	73
Step Propagation on Alkali Halide Cleavage Faces due to Thermal Excitation and Photon-Enhanced Sublimation H.-. Höche	87
Morphological Changes in Systems of Gold Particles on Cleavage Faces of Rocksalt Caused by Particle Motion R.U. Abelmann	103
Thermal Desorption Spectroscopy of Hydrogen from Methanol on Silicon (111) 7X7 - Spectrum Simulation K.D. Brzoska	115
Visible Local Instabilities of the FIM Image of Metal Surfaces S. Surma	129
Angular Distribution of Auger Electron Emission from Low-Index Nickel Faces S. Mróz	139
Photofield Emission Spectroscopy of Optical Transitions in the Band Structure of Metals T. Radon	153
Experimental Confirmation of Two Close Bulk States in the <100> Band Structure of Tungsten T. Radon and S. Jaskolka	163
Sputter Profiling of a Catalysis-Poisoned PtRh10 Alloy in a Semiquantitative Approach by Auger Electron Spectroscopy S. Kaszczyszyn, A. Grzeszczak and Z. Prazuch	167