

Table of Contents

Deep Level Characterization and its Passivation in 3C-SiC Monitored by Capacitance Transient Methods

M. Kato, M. Ichimura, E. Arai and Y. Tokuda 1

The Formation of p-Type ZnO Films by Using a Diffusion Process

M.C. Jeong, D.K. Hwang, J.M. Myoung, Y.D. Ko, M.S. Kim and I. Yun 17

The Role of Dislocations in the Plastic Behavior of Silicon Nitride A Review

X. Milhet, J.L. Demenet and J. Rabier 23

Structural Defects in Amorphous Silicon Oxynitride and Silicon Nitride

H. Kato and Y. Ohki 39

Sintering Characteristics of Nano-Ceramic Coatings

J.T.M. de Hosson and R. Popma 51

Ab Initio Modelling of Metal Adhesion to Ceramics with Surface Defects

E.A. Kotomin and Y.F. Zhukovskii 67

The Effective Diffusivity in Two-Phase Material

I.V. Belova and G.E. Murch 79

Abstracts

1