

Table of Contents

Molecular Dynamics Simulation Studies of Basic Aspects of Particle-Solid Interaction Phenomena

T. Diaz de la Rubia and M.W. Guinan 1

Recent Developments of Molecular Dynamics Simulations in Ion Implantation and in Material Processing

A.M. Mazzone 51

Low Energy Ion-Surface Interactions during Epitaxial Growth

H.A. Atwater 67

The Interaction of Slow Ions with Surfaces

W. Heiland 107

Optical Waveguides Formed by Ion Implantation

P.J. Chandler, L. Zhang and P.D. Townsend 129

Ion Implantation of Polymers for Electrical Conductivity Enhancement

L.B. Bridwell 163

Mössbauer Studies of Ion Implanted Systems

G. Langouche 181