

Table of Contents

Preface

Surface Coatings of Super Hard Materials for Tool Applications

M. Murakawa 1

Hard Coatings for Cutting and Forming Tools by PVD Arc Processes

O. Knotek, F. Löffler, C. Barimani and G. Kraemer 29

Hard Nitride Coatings by DC Magnetron Sputtering

A.K. Ray 61

Recent Exciting Developments Related to Diamond Coatings

A.K. Dua 91

Tribological and Micro-Tribological Phenomena in Coatings

S.J. Bull 105

Gas Deposition

C. Hayashi 153

Surface Coatings for Solar Application

S. Chaudhuri, D. Bhattacharyya, A.B. Maity and A.K. Pal 181

Functional Decorative Film by Ion Plating

M. Minato 207

Coatings for Reducing Plasma Contamination and Power Loss in Fusion Reactor

A.K. Dua and R.P. Agarwala 225

Cluster Ion Beam Processing

I. Yamada 239

Surface Modification and Coating with Lasers

J. Folkes 261