

# Table of Contents

## Preface

<b>Review on Recent Research and Development of Cold Spray Technologies</b> Q. Wang and M.X. Zhang	1
<b>Cold Spraying of Titanium: A Review of Bonding Mechanisms, Microstructure and Properties</b> T. Hussain	53
<b>Application of Supersonic Flame Spraying for Next Generation Cylinder Liner Coatings</b> A. Manzat, A. Killinger and R. Gadow	91
<b>High Velocity Thermal Spraying of Powders and Suspensions Containing Micron, Submicron and Nanoparticles for Functional Coatings</b> A. Killinger and R. Gadow	99
<b>Overview on Developed Functional Plasma Sprayed Coatings on Glass and Glass Ceramic Substrates</b> M. Floristán, A. Killinger and R. Gadow	115
<b>Advanced Ceramic / Metal Polymer Multilayered Coatings for Industrial Applications</b> A. Rempp, M. Widmann, A. Killinger and R. Gadow	133
<b>Microstructure and High-Temperature Oxidation-Resistant Performance of Several Silicide Coatings on Nb-Ti-Si Based Alloy Prepared by Pack Cementation Process</b> J. Li and X.P. Guo	145
<b>Recent Studies on Coating of some Magnesium Alloys; Anodizing, Electroless Coating and Hot Press Cladding</b> N. El Mahallawy and M. Harhash	167
<b>Development of Bioactive Hydroxyapatite Coatings on Titanium Alloys</b> A. Carradò	183
<b>Characterization and Tribological Performance of Cu-Based Intermetallic Layers</b> J. Joseph and D.M. Fabijanic	195
<b>Characterisation of Interfacial Adhesion of Thin Film/Substrate Systems Using Indentation-Induced Delamination: A Focused Review</b> M.Y. Lu, H.T. Xie and H. Huang	201