Polymers and Composites in Engineering: Processing, Properties and Applications
ISBN(softcover): 978-3-03835-557-1 ISBN(eBook): 978-3-0357-0028-2

Table of Contents

Multilayered Composite Plates with Shape Memory Properties
L. Santo, F. Quadrini and D. Bellisario 1

Effect of Annealing on the Mechanical and Electrical Behavior of Polyurethane/Multi-Walled Carbon Nanotube Nanocomposites
I.L. Sandu, R. Rosculet and C. Fetecau 8

Rheological Properties of Thermoplastic Polyurethane/Multi-Walled Carbon Nanotube Nanocomposites
I.L. Sandu, R. Rosculet and C. Fetecau 18

Extruder Functioning Parameters Modification in PE Recycling
N. Teodorescu, M.F. Stefanescu, C. Jinescu, I.M. Prodea and I. Panait 25

MRE Damping Characteristics Evaluation
E. Chirila, I. Chirica, D. Boazu and E.F. Beznea 31

The Effect of Cross-Linking on Nano-Mechanical Properties of Polyamide
M. Ovsik, D. Manas, M. Manas, M. Stanek and M. Reznicek 37

The Behaviour of Cross-Linking Filled PA66 by Micro-Indentation Test
M. Ovsik, D. Manas, M. Manas, M. Stanek and V. Senkerik 43

Microsculpturing of Polymeric Surfaces by Compression Molding
G.M. Tedde, D. Bellisario, L. Santo and F. Quadrini 49

Electrochemical Codeposition of UHMWPE Biopolymer into Cobalt Matrix for Biomedical Applications
L. Benea and E. Dănăilă 57

Phenol-Formaldehyde Resin to Improve Corrosion Resistance of Zinc Layers
A.C. Ciubotariu, L. Benea and P. Ponthiaux 63

Polymeric Coatings Used against Marine Corrosion of Naval Steel EN32
L. Mardare, L. Benea, E. Dănăilă and V. Dumitraşcu 71

Surface Analyses of Arboform Samples
S. Plavanescu Mazurchevici, D. Nedelcu, D. Bellisario and C. Carausu 80

Evaluation of Mechanical Properties of Surface Layer Injection Molded Polypropylene by Nanoindentation Test
D. Manas, M. Manas, M. Ovsik, M. Stanek, P. Stoklasek, T. Fiala and L. Hylova 86

Substituting Die-Cast Products by Injection Molded High Performance Polymers
D. Gagliardi, F. Quadrini and L. Santo 91

Simplified Version of Polymer Rotational Molding Manufacturing Method
L. Slătineanu, O. Dodun, M. Coteaţă, G. Nagit and I. Beşliu 97

Demolding Moment Calculation for Injected Parts with Internal Trapezoidal Thread
S. Haragâş, I. Negrean, D. Pop, O. Buiga and F. Rusu 104