

Contents

Introduction to Composite Materials	1
M. Balasubramanian	
Essential Properties of Fibres for Composite Applications	39
Wilhelm Steinmann and Anna-Katharina Saelhoff	
Fiber Architectures for Composite Applications	75
Kadir Bilisik, Nesrin Sahbaz Karaduman and Nedim Erman Bilisik	
Synthetic Fibres for Composite Applications	135
Davide Pico and Wilhelm Steinmann	
Natural Fibers for Composite Applications	171
Malgorzata Zimniewska and Maria Wladyka-Przybylak	
Metallic Fibers for Composite Applications	205
K. Shabaridharan and Amitava Bhattacharyya	
Carbon Nanofibres and Nanotubes for Composite Applications	231
Maria C. Paiva and José A. Covas	
Natural Nanofibres for Composite Applications	261
Carlos F.C. João, Ana C. Baptista, Isabel M.M. Ferreira, Jorge C. Silva and João P. Borges	
Surface Preparation of Fibres for Composite Applications	301
Mohammad S. Islam and Anup K. Roy	
Reinforcements and Composites with Special Properties	317
Arobindo Chatterjee, Subhankar Maity, Sohel Rana and Raul Fanguero	
Comparison of Performance, Cost-Effectiveness and Sustainability	375
Jack Howarth	

Fibrous and Textile Materials for Composite Applications

Rana, S.; Figueiro, R. (Eds.)

2016, XI, 394 p. 234 illus., 99 illus. in color., Hardcover

ISBN: 978-981-10-0232-8