1. Record Nr. UNINA9910465103403321

Titolo	Composite laminates [[electronic resource]] : properties, performance and applications / / Anders Doughett and Peder Asnarez, editors
Pubbl/distr/stampa	New York, : Nova Science Publishers, c2010
ISBN	1-61122-592-2
Descrizione fisica	1 online resource (520 p.)
Collana	Materials science and technologies series
Altri autori (Persone)	DoughettAnders AsnarezPeder
Disciplina	620.1/18
Soggetti	Laminated materials Composite materials Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	""COMPOSITE LAMINATES: PROPERTIES, PERFORMANCE AND APPLICATIONS""; ""COMPOSITE LAMINATES: PROPERTIES, PERFORMANCE AND APPLICATIONS""; ""CONTENTS ""; ""PREFACE ""; ""POST a€?IMPACT-FATIGUE BEHAVIOUR OF COMPOSITE LAMINATES: CURRENT AND NOVEL TECHNOLOGIES FOR ENHANCED DAMAGE TOLERANCE ""; ""Abstract ""; ""Abbreviations ""; ""Introduction""; ""Impact Response Polymers ""; ""Impact Response of Fibrous Composites ""; ""Effect of Temperature on Impact Response ""; ""Natural Composites ""; ""Impact-Fatigue ""; ""Fatigue Modelling a€? Life Predictions "" ""Delamination Propagation under Fatigue a€? Models of Prediction """"Ndt Inspection of Initial Damage and Damage Propagation ""; ""Acoustography ""; ""Acoustic and Lamb Wavesa€? Methods ""; ""Electrical Measurements ""; ""Embedding Optical Fibres ""; ""Imaging Techniques ""; ""Ultrasonics ""; ""Other Methods ""; ""Post a€? Impact Behaviour under Static and Cyclic Loading ""; ""Natural Composites ""; ""Post a€? Impact Static Behaviour Modelling ""; ""Delamination Growth Prediction (Cyclic) ""; ""Natural Composites""; ""Models of Prediction "" ""Technologies for the Reduction or Elimination of Damage Propagation """"z-Pinning ""; ""Stitching ""; ""Matrix Toughening a€? Interleaving ""; ""Hybrid Composite Systems Incorporating Nano- phases ""; ""Natural Composites ""; ""Applications ""; ""Composite Joints ""; ""Wind Turbines

""; ""Fibre Metal Laminates ""; ""Summary ""; ""References "";
""COMPOSITE MULTILAYER COATINGSFOR IMPROVED BARRIER
PROPERTIESOF PACKAGING BOARD""; ""Abstract""; ""Introduction"";
""Paperboard Laminates""; ""Barrier Coating of Paperboard""; ""Water
Vapour Barrier""; ""Oxygen Barrier""
""Water Absorption and Surface Hydrophobicity""""""Converting of Coated
Paperboard""; ""Barrier Materials for Paperboard""; ""Synthetic
Materials""; ""Biobased Materials""; ""Reinforcement of Polymer
Coatings""; ""Experimental""; ""Substrate""; ""Coating Materials"";
""Characterization of Composite Formulations""; ""Viscosity""; ""Charge
Density""; ""Surface Tension of Coating Formulations""; ""Laboratory
Coating""; ""Water Vapour Transmission Rate""; ""Oxygen Transmission
Rate""; ""Interaction with Liquid Water""; ""Surface Energy""; ""Surface
Gloss""; ""Results and Discussion""; ""Viscosity""
""Charge Density and Zeta Potential""""""Wettability of Primary and
Secondary Layers""; ""Coat Weight and Thickness""; ""Barrier
Properties""; ""Water Vapour Barrier""; ""Oxygen Barrier""; ""Water
Absorption and Surface Hydrophobicity""; ""Surface Gloss""; ""Wettability
Problems and Effects on Barrier Properties""; ""Environmental Aspects
on Materials Choice""; ""Conclusion""; ""References""; ""SIMULATION OF
ULTIMATE STRENGTHOF FIBER-REINFORCED COMPOSITES BY MEANSOF
BRIDGING MICROMECHANICS MODEL""; ""Abstract""; ""1. Introduction"";
""2. Stress Analysis""; ""2.1. Lamina Analysis""
""2.1.1. Basic Formulae of the Bridging Model""