R	ecord Nr.	UNINA9910461529203321
Т	ïtolo	Adhesive properties in nanomaterials, composites, and films [[electronic resource] /] / Keri A. Wilkinson and Daniel A. Ordonez, editors
Ρ	Pubbl/distr/stampa	New York, : Nova Science Publishers, c2011
15	SBN	1-61942-068-6
D	escrizione fisica	1 online resource (200 p.)
С	Collana	Materials science and technologies
A	Itri autori (Persone)	WilkinsonKerry OrdonezDaniel A
D	Disciplina	620.1/99
S	oggetti	Adhesives Nanostructured materials Electronic books.
L	ingua di pubblicazione	Inglese
_	ormato	Materiale a stampa
L	ivello bibliografico	Monografia
N	lote generali	Description based upon print version of record.
N	lota di bibliografia	Includes bibliographical references and index.
Ν	lota di contenuto	""ADHESIVE PROPERTIES IN NANOMATERIALS, COMPOSITES AND FILMS""; ""ADHESIVE PROPERTIES IN NANOMATERIALS, COMPOSITES AND FILMS ""; ""CONTENTS ""; ""PREFACE""; ""NORLAND OPTICAL ADHESIVE AND LIQUID CRYSTAL COMPOSITE MATERIALS ""; ""ABSTRACT ""; "1. INTRODUCTION ""; "2. POLYMERIZATION INDUCED PHASE SEPARATION AND MORPHOLOGY DEVELOPMENT ""; "2.1. Polymerization Induced Phase Separation ""; "2.2. Morphology Development ""; ""3. PHASE BEHAVIOR AND THERMOPHYSICAL PROPERTIES ""; ""3.1. Phase Behavior ""; ""3.2. Thermo-Physical ""; ""4. THERMO-MECHANICAL AND VISCO-ELASTICITY"" ""4.1. Thermo-Mechanical """"4.2. Dynamical Mechanical Measurement and Visco-Elasticity ""; ""5. ELECTRO-OPTICAL RESPONSES ""; ""5.1. Controlled Light Transmission ""; ""5.2. Spectral Selectivity ""; ""CONCLUSION""; "ACKNOWLEDGMENTS ""; ""REFERENCES ""; ""ENVIRONMENTAL AND CHEMICAL DEGRADATION OF BONDED POLYMERIC COMPOSITE JOINTS ""; ""ABSTRACT ""; ""1.1. INTRODUCTION ""; ""1.1. Overview of the Content of This Chapter ""; ""1.2. Applications of Composite Materials ""; ""1.3. Bonded Joints and Bonded Repairs ""; ""1.4. Challenges ""; ""2. DEGRADATION STUDY ""; ""2.1. Experimental ""

1.

""2.1.1. Lap Joints Investigation """"2.1.2. Adhesive Investigation ""; ""2.1.3. Carbon/Epoxy Investigation ""; ""3. MASS GAIN AND HARDNESS RESULTS""; ""4. RESULTS OF FLUID SORPTION, FICKIAN AND LANGMUIR DIFFUSION MODELS ""; ""4.1. Overview of Fluid Uptake Models ""; ""5.2. Diffusion Models ""; ""5. RESULTS FROM DIFFERENTIAL SCANNING CALORIMETRY AND THERMOGRAVIMETRIC ANALYSIS""; ""CONCLUSION ""; ""ACKNOWLEDGMENTS ""; ""REFERENCES ""; ""PULSED HIGH- AND LOW-ENERGETIC FILM GROWTH ON THERMOPLASTIC POLYURETHANE BY PULSED LASER DEPOSITION AT ROOM TEMPERATURE ""; ""ABSTRACT

""1. INTRODUCTION """"2. MECHANISMS OF DEBONDING OF COATINGS ON POLYMERS ""; ""2.1. Wrinkling of Coatings ""; ""2.2. Buckling of Coatings ""; ""2.3. Wrinkling and Buckling on the Nanometer Scale ""; ""3. EXPERIMENTAL DETAILS ""; ""3.1. Film Deposition ""; ""3.2. Film Characterization ""; ""4. STRUCTURE AND CHEMICAL BINDING OF PLD COATINGS ON POLYMERS ""; ""5. WRINKLING AND BUCKLING IN GROWING PLD COATINGS ON POLYMERS ""; "CONCLUSION ""; ""ACKNOWLEDGMENTS"; ""REFERENCES ""; ""ADHESIVE BONDING OF HYDRO-THERMALLY MODIFIED WOOD ""; ""ABSTRACT ""; ""1. INTRODUCTION ""

""2. HYDRO-THERMALLY MODIFIED WOOD """"3. ADHESIVE BONDING OF DENSIFIED WOOD ""; ""3.1. Adhesive Bonding of the VTC Wood ""; ""4. APPLICATION OF DENSIFIED WOOD IN WOOD COMPOSITES ""; ""CONCLUSIONS ""; ""REFERENCES""; ""THE USE OF ADHESIVE FILMS IN TRANSDERMAL AND MUCOADHESIVE DOSAGE FORMS""; ""ABSTRACT ""; "1. INTRODUCTION ""; ""2.PRESSURE SENSITIVE ADHESIVES FOR TRANSDERMAL PATCHES""; ""2.1. Mechanism of Adhesion and Adhesive Performance Monitoring ""; ""2.2. Comparison of the Adhesive Performance of Silicone and Acrylic PSAs ""; ""2.3. Hydrophilic PSAs for Transdermal Application "" ""3. HYDROPHILIC ADHESIVE FILMS AS MUCOADHESIVE DOSAGE FORMS""