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Autore	Trione, Aldo
Titolo	Ars combinatoria / Aldo Trione
Pubbl/distr/stampa	Milano, : Spirali, 1999
ISBN	8877705213
Descrizione fisica	192 p. ; 21 cm
Collana	<L'>alingua ; 150
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910465415203321

Titolo	Barrier properties of polymer clay nanocomposites [[electronic resource] /] / Vikas Mittal, editor
Pubbl/distr/stampa	New York, : Nova Science Publishers, c2010
ISBN	1-61761-800-4
Descrizione fisica	1 online resource (283 p.)
Collana	Nanotechnology science and technology series
Altri autori (Persone)	MittalVikas
Disciplina	620.1/923
Soggetti	Nanocomposites (Materials) Polymer clay - Barrier properties 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	""BARRIER PROPERTIES OFPOLYMER CLAY NANOCOMPOSITES""; ""CONTENTS""; ""PREFACE""; ""BARRIER PROPERTIESOF COMPOSITE MATERIALS""; ""ABSTRACT""; ""1.1. INTRODUCTION""; ""1.2. THEORY OF PERMEATION""; ""1.3. PERMEATION THROUGH HETEROGENEOUS MEDIA""; ""1.3.1. Laminates""; ""1.3.2. Materials with Plate-Like

Inclusions""; ""1.4. MODIFIED PERMEATION MODELS""; ""1.5. MEASUREMENT OF BARRIER PERFORMANCE""; ""1.6. TRANSPORT MECHANISM ANDDIFFERENT POLYMER SYSTEMS""; ""REFERENCES""; ""COMPATIBILIZATION OF INTERFACES INNANOCOMPOSITES: ROUTE TOWARDSBETTER BARRIER PROPERTIES""; ""ABSTRACT""
""2.1. INTRODUCTION""""2.2. CONVENTIONAL NANOCOMPOSITES AND NEED OF NEW SYSTEMS""; ""2.3. GRAFTING a€?TOa€? THE SURFACE APPROACH""; ""2.4. GRAFTING a€?FROMa€? THE SURFACE APPROACH""; ""2.5. GRAFTING USING CONTROLLED LIVINGPOLYMERIZATION APPROACH""; ""2.6. POLYOLEFINS GRAFTING a€?FROMa€? THE SURFACE""; ""REFERENCES""; ""BARRIER PROPERTIES OF POLYURETHANENANOCOMPOSITES AND THEIR RELATIONSHIP TOSHAPE MEMORY PROPERTIES""; ""ABSTRACT""; ""3.1. INTRODUCTION""; ""3.2. TRANSPORT PHENOMENA IN PRISTINE POLYMERS""; ""3.2.1. Early Developments""; ""3.2.2. Basic Relationships""
""3.2.3. Nature of the Penetrant""""3.2.4. Nature of the Polymer""; ""3.2.4.1. Effect of Chemical Constituents and the Presence of Chemical Cross-links""; ""3.2.4.2. Effect of Crystallinity""; ""3.2.4.3. Effect of Chain Orientation""; ""3.3. TRANSPORT PHENOMENA IN MICROANDNANO-COMPOSITES""; ""3.4. CONTINUUM MODELING OF TRANSPORTPROPERTIES OF POLYMER COMPOSITES""; ""3.5. PERMEABILITY OF POLYURETHANES (PU) ANDPOLYURETHANEUREAS (PUU): STRUCTURE-PROPERTYRELATIONSHIPS""; ""3.5.1. Transport Mechanisms""; ""3.5.2. Effect of Soft Segment Type, Its Composition, and Molecular Weight""
""3.5.3. Effect of Hard Segment Content and the Extent of Phase Separation""""3.5.4. Effect of Penetrant Type""; ""3.6. PERMEABILITY OF FILLED POLYURETHANES ANDPOLYURETHANEUREAS: MICRO- AND NANOCOMPOSITES""; ""3.7. IMPORTANCE OF TRANSPORT PHENOMENONIN SHAPE MEMORY POLYMERS""; ""3.7.1. Importance of Mass Transfer in SMP:Actuation by Water Absorption in Surgical Procedures""; ""3.7.2. Importance of Mass Transfer through SMP:Textile Fabrics and Refrigerators""; ""3.8. CONCLUSIONS""; ""3.9. ACKNOWLEDGEMENTS""; ""REFERENCES""; ""PERMEATION PROPERTIESOF EPOXY NANOCOMPOSITES""; ""ABSTRACT""
""4.1. INTRODUCTION""""4.2. MODELING OF THE PERMEABILITY OF NANOCOMPOSITES""; ""4.3. PERMEABILITY OF EPOXY NANOCOMPOSITES""; ""4.3.1. Effect of Nanoplatelet Loading""; ""4.3.2. Effect of Nanoplatelet Dispersion""; ""4.3.3. Effect of Nanoplatelet Aspect Ratio""; ""4.3.4. Effect of Nanoplatelet Orientation""; ""4.3.5. Control of Nanocomposite Morphology""; ""4.4. CONCLUSIONS""; ""4.5. ACKNOWLEDGMENTS""; ""REFERENCES""; ""BARRIER PROPERTIESOF POLYOLEFIN NANOCOMPOSITES""; ""ABSTRACT""; ""5.1. INTRODUCTION""; ""5.2. BARRIER PROPERTIES OF POLYOLEFINNANOCOMPOSITES: EFFECT OF COMPATIBILIZER""
""5.3. ROLE OF OPTIMUM CLAY MODIFICATION""

3. Record Nr. UNINA9910551769103321

Autore	Bellesi, Sandro
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