

1. Record Nr.	UNINA9910139514303321
Titolo	Optimization of polymer nanocomposite properties [[electronic resource] /] / edited by Vikas Mittal
Pubbl/distr/stampa	Weinheim, : Wiley-VCH Verlag GmbH, c2010
ISBN	1-282-47233-X 9786612472336 3-527-62927-0 3-527-62928-9
Descrizione fisica	1 online resource (442 p.)
Classificazione	620 UV 9250
Altri autori (Persone)	MittalVikas
Disciplina	620.192
Soggetti	Reinforced plastics Nanostructured materials
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	Optimization of Polymer Nanocomposite Properties; Contents; Preface; List of Contributors; 1: Polymer Nanocomposites: Synthesis, Microstructure, and Properties; 1.1 Introduction; 1.2 Means of Synthesis and Microstructure; 1.3 Importance of Thermogravimetric Analysis and X-Ray Diffraction for Filler and Nanocomposite Microstructure Characterization; 1.4 Polar and Nonpolar Polymer Systems; 1.5 Advances in Filler Surface Modifications; 1.6 Prediction of Composite Properties; References; 2: Morphology Development in Thermoset Nanocomposites; 2.1 Introduction; 2.2 Epoxy Nanocomposite Systems 2.3 Effects of Processing and Aging2.4 Other Thermoset Nanocomposite Systems; 2.5 Recent Advances in Thermoset Nanocomposites; 2.5.1 Epoxy-HBP Nanostructured Systems; 2.5.2 Ternary Nanostructured Systems and Multiscale Composites; 2.5.3 Novel Characterization Methods; 2.5.4 Modeling Thermoset Nanocomposite Systems; 2.6 Summary; References; 3: Morphology and Interface Development in Rubber-Clay Nanocomposites; 3.1 Introduction; 3.2 Melt Compounding; 3.2.1 Mechanism and Influencing

Factors; 3.2.1.1 The Organic Modification; 3.2.1.2 The Features of Rubber and Compatibilizers or Coupling Agents
 3.2.1.3 Melt-Compounding Conditions 3.2.2 Evolution of Morphology and Interface during Vulcanization of RCNs; 3.2.2.1 Changes in the Local Microstructure of Clay Particles; 3.2.2.2 Change in the Spatial Distribution of Clay Particles; 3.3 Latex Compounding; 3.3.1 Mechanism and Influencing Factors; 3.3.2 Interface Enhancement; References; 4: Morphology Development in Polyolefin Nanocomposites; 4.1 Introduction; 4.2 Intercalation, Exfoliation, and Dispersion of MMT; 4.2.1 Manufacturing Processes; 4.2.2 Dispersion (Exfoliation) State of Nanoclays; 4.2.3 Exfoliation Process of Nanoclays
 4.2.4 Control of Exfoliation/Dispersion of Nanoclays 4.2.4.1 Raw Materials; 4.2.4.2 Mixing Methods; 4.2.4.3 Mixing Conditions; 4.2.5 Morphology of Base Polymers; 4.3 Crystallization and Crystalline Structure of Matrix Polymers; 4.3.1 Crystallization; 4.3.1.1 Quiescent Crystallization; 4.3.1.2 Flow-Induced Crystallization; 4.3.2 Crystalline Structure; 4.3.2.1 Quiescent Crystallization; 4.3.2.2 Flow-Induced Crystallization; 4.4 Morphology Development in Processing; 4.4.1 Injection Molding; 4.4.1.1 Conventional Injection Molding; 4.4.1.2 Dynamic Packing Injection Molding; 4.4.2 Sheet Extrusion
 4.4.3 Film Extrusion Casting 4.5 Conclusions; References; 5: Rheological Behavior of Polymer Nanocomposites; 5.1 Introduction; 5.2 Rheological Behavior of Polymer Nanocomposites in Solution State; 5.3 Rheological Behavior of Polymer Nanocomposites in Melt State; 5.4 Conclusions; References; 6: Mechanical Property Enhancement of Polymer Nanocomposites; 6.1 Introduction; 6.2 Material Stiffness; 6.2.1 Experimental Investigations; 6.2.2 Analytical Modeling; 6.3 Ultimate Mechanical Properties; 6.3.1 Experimental Investigations; 6.3.2 Analytical Modeling; 6.3.2.1 Yield Stress
 6.3.2.2 Properties at Break

Sommario/riassunto

A one-stop resource for researchers and developers alike, this book covers a plethora of nanocomposite properties and their enhancement mechanisms. With contributors from industry as well as academia, each chapter elucidates in detail the mechanisms to achieve a certain functionality of the polymer nanocomposite, such as improved biodegradability, increased chemical resistance and tribological performance. Special emphasis is laid on the interdependence of the factors that affect the nanocomposite properties such that readers obtain the information necessary to synthesize the polymer materi

2. Record Nr.	UNISALENTO991000157009707536
Autore	Navarro González, Juan A.
Titolo	C[infinity]-differentiable spaces / Juan A. Navarro González, Juan B. Sancho de Salas
Pubbl/distr/stampa	Berlin : Springer, 2003
ISBN	354020072X
Descrizione fisica	xii, 188 p. : ill. ; 24 cm
Collana	Lecture notes in mathematics, 0075-8434 ; 1824
Classificazione	AMS 58A40 AMS 58A05 AMS 13J99 LC QA3.L28
Altri autori (Persone)	Sancho de Salas, Juan B.
Disciplina	516.36
Soggetti	Differentiable manifolds Algebraic spaces Topological rings
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	On t.p. [infinity] appears as the infinity symbol at superscript position
Nota di bibliografia	Includes bibliographical references and index

3. Record Nr.	UNINA9910781927203321
Titolo	Conversion of a continent [[electronic resource]] : contemporary religious change in Latin America / / edited by Timothy J. Steigenga and Edward L. Cleary
Pubbl/distr/stampa	New Brunswick, N.J., : Rutgers University Press, c2007
ISBN	1-281-31659-8 9786611316594 0-8135-4402-5
Descrizione fisica	1 online resource (298 p.)
Altri autori (Persone)	SteigengaTimothy J. <1965-> ClearyEdward L
Disciplina	204/.2
Soggetti	Conversion - Latin America Latin America Religion
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	Front matter -- CONTENTS -- ACKNOWLEDGMENTS -- PART ONE. Approaches to Conversion -- 1. Understanding Conversion in the Americas / Steigenga, Timothy J. / Cleary, Edward L. -- 2. Analyzing Conversion in Latin America / Frigerio, Alejandro -- 3. Conversion Careers in Latin America / Gooren, Henri -- 4. Specialized Spirits / Chesnut, Andrew -- 5. Relational Analysis of Religious Conversion and Social Change / Smilde, David -- PART TWO. Conversion to What? -- 6. Conversion from Afro-Brazilian Religions to Neo-Pentecostalism / Birman, Patricia -- 7. Conversion to Afro-Brazilian Religions in Buenos Aires / Carozzi, Mari A Julia -- 8. The Catholic Charismatic Renewal / Cleary, Edward L. -- 9. Conversion to Native Spirituality in the Andes / Corr, Rachel -- PART THREE. The Implications of Conversion -- 10. Indigenous Conversion to Catholicism / Kovic, Christine -- 11. Stop Suffering? / Garrard-Burnett, Virginia -- 12. Healing the Nation / Wightman, Jill M. -- 13. The Politics of Pentecostalized Religion / Steigenga, Timothy J. -- CONTRIBUTORS -- INDEX
Sommario/riassunto	A massive religious transformation has unfolded over the past forty years in Latin America and the Caribbean. In a region where the

Catholic Church could once claim a near monopoly of adherents, religious pluralism has fundamentally altered the social and religious landscape. Conversion of a Continent brings together twelve original essays that document and explore competing explanations for how and why conversion has occurred. Contributors draw on various insights from social movement theory to religious studies to help outline its impact on national attitudes and activities, gender relations, identity politics, and reverse waves of missions from Latin America aimed at the American immigrant community. Unlike other studies on religious conversion, this volume pays close attention to who converts, under what circumstances, the meaning of conversion to the individual, and how the change affects converts' beliefs and actions. The thematic focus makes this volume important to students and scholars in both religious studies and Latin American studies.
