

1. Record Nr.	UNINA9910146249903321
Titolo	Modern polyesters [[electronic resource]] : chemistry and technology of polyesters and copolyesters // edited by John Scheirs and Timothy E. Long
Pubbl/distr/stampa	Hoboken, NJ, : John Wiley & Sons, c2003
ISBN	1-280-23893-3 9786610238934 0-470-09067-7 0-470-09068-5
Descrizione fisica	1 online resource (786 p.)
Collana	Wiley series in polymer science
Altri autori (Persone)	ScheirsJohn LongTimothy E. <1969->
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Soggetti	Polyesters Electronic books.
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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	Modern Polyesters: Chemistry and Technology of Polyesters and Copolyesters; Contents; Contributors; Series Preface; Preface; About the Editors; I HISTORICAL OVERVIEW; 1 The Historical Development of Polyesters; 1 Introduction; 2 Alkyd and Related Resins; 3 Fibres from Partially Aromatic Polyesters; 3.1 Early Work Leading to Poly(ethylene Terephthalate); 3.2 Spread of Polyester Fibre Production; 3.3 Intermediates; 3.4 Continuous Polymerisation; 3.5 Solid-phase Polymerisation; 3.6 End-use Development; 3.7 High-speed Spinning; 3.8 Ultra-fine Fibres; 4 Other Uses for Semi-aromatic Polyesters 4.1 Films4.2 Moulding Products; 4.3 Bottles; 5 Liquid-crystalline Polyesters; 6 Polyesters as Components of Elastomers; 7 Surface-active Agents; 8 Absorbable Fibres; 9 Polycarbonates; 10 Natural Polyesters; 10.1 Occurrence; 10.2 Poly(b-hydroxyalkanoate)s; 11 Conclusion; References; II POLYMERIZATION AND POLYCONDENSATION; 2 Poly (ethylene Terephthalate) Polymerization - Mechanism, Catalysis, Kinetics, Mass Transfer and Reactor Design; Notation; 1 Introduction; 2 Chemistry, Reaction Mechanisms, Kinetics and Catalysis; 2.1

Esterification/Hydrolysis; 2.2 Transesterification/Glycolysis
 2.3 Reactions with Co-monomers 2.4 Formation of Short Chain
 Oligomers; 2.5 Formation of Diethylene Glycol and Dioxane; 2.6
 Thermal Degradation of Diester Groups and Formation of Acetaldehyde;
 2.7 Yellowing; 2.8 Chemical Recycling; 2.9 Conclusions; 3 Phase
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 3.2 Diffusion and Mass Transfer in Melt-phase Polycondensation; 3.2.1
 Mass-transfer Models; 3.2.2 Diffusion Models; 3.2.3 Specific Surface
 Area; 3.3 Diffusion and Mass Transfer in Solid-state Polycondensation;
 3.4 Conclusions
 4 Polycondensation Processes and Polycondensation Plants 4.1 Batch
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 Acknowledgements; References; 3 Synthesis and Polymerization of
 Cyclic Polyester Oligomers; 1 Introduction; 2 History; 3 Preparation of
 Polyester Cyclic Oligomers from Acid Chlorides
 4 Polyester Cyclic Oligomers via Ring-Chain Equilibration
 (Depolymerization) 5 Mechanism for Formation of Cyclics via
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 Purity; 2.3.8 Catalyst; 2.3.9 Molecular Weight
 3 Crystallization of PET

Sommario/riassunto

Provides an overview of the family of polyester polymers which
 comprise an important group of plastics that span the range of
 commodity polymers to engineering resins. It describes the
 preparation, properties and applications of polyesters. Readers will also
 find details on polyester-based elastomers, biodegradable aliphatic
 polyester, liquid crystal polyesters and unsaturated polyesters for
 glass-reinforced composites. Presents an overview of the most recent
 developments. Explores synthesis, catalysts, processes, properties and
 applications. Looks at emerging polyester materials

2. Record Nr.	UNISALENTO991001152019707536
Autore	Morettin, Pedro Alberto
Titolo	Modelos para previsao de series temporais : 13. coloquio brasileiro de Matematica, Pocos de Calda MG 12 a 24/07/1981 / P. A. Morettin, C. M. De Castro Tolo
Pubbl/distr/stampa	Rio De Janeiro : IMPA (Instituto de Matematica Pura e Aplicada), 1981
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