

1. Record Nr.	UNINA9910707834203321
Autore	Morris A. Terry
Titolo	Comparison of system identification techniques for the Hydraulic Manipulator Test Bed (HMTB) // A. Terry Morris
Pubbl/distr/stampa	Hampton, Virginia : , : National Aeronautics and Space Administration, Langley Research Center, , September 1996
Descrizione fisica	1 online resource (ix, 117 pages) : illustrations
Collana	NASA technical memorandum ; ; 110279
Soggetti	System identification Manipulators Dynamic models Telerobotics Control systems design Test stands Parameter identification
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"September 1996." "Performing organization: NASA Langley Research Center"--Report documentation page.
Nota di bibliografia	Includes bibliographical references (page 84).

2. Record Nr.	UNICAMPANIAVAN00278896
Titolo	Modeling and Optimization in Space Engineering : New Concepts and Approaches / Giorgio Fasano, János D. Pintér editors
Pubbl/distr/stampa	Cham, : Springer, 2023
Descrizione fisica	xiv, 399 p. : ill. ; 24 cm
Soggetti	<p>05B40 - Combinatorial aspects of packing and covering [MSC 2020]</p> <p>37N05 - Dynamical systems in classical and celestial mechanics [MSC 2020]</p> <p>37N40 - Dynamical systems in optimization and economics [MSC 2020]</p> <p>49-XX - Calculus of variations and optimal control; optimization [MSC 2020]</p> <p>65K05 - Numerical mathematical programming methods [MSC 2020]</p> <p>68T01 - General topics in artificial intelligence [MSC 2020]</p> <p>68T05 - Learning and adaptive systems in artificial intelligence [MSC 2020]</p> <p>68T20 - Problem solving in the context of artificial intelligence (heuristics, search strategies, etc.) [MSC 2020]</p> <p>68T37 - Reasoning under uncertainty in the context of artificial intelligence [MSC 2020]</p> <p>68T40 - Artificial intelligence for robotics [MSC 2020]</p> <p>70Mxx - Orbital mechanics [MSC 2020]</p> <p>90-XX - Operations research, mathematical programming [MSC 2020]</p> <p>90Bxx - Operations research and management science [MSC 2020]</p> <p>90C11 - Mixed integer programming [MSC 2020]</p> <p>90C26 - Nonconvex programming, global optimization [MSC 2020]</p> <p>90C29 - Multi-objective and goal programming [MSC 2020]</p> <p>90C30 - Nonlinear programming [MSC 2020]</p>
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

3. Record Nr.	UNINA9911020269903321
Titolo	Oriented polymer materials // edited by Stoyko Fakirov
Pubbl/distr/stampa	Weinheim, : Wiley-VCH, 2002
ISBN	9786611842697 9781281842695 1281842699 9783527615056 3527615059 9783527615049 3527615040
Descrizione fisica	1 online resource (536 p.)
Altri autori (Persone)	FakirovStoyko
Disciplina	547.84 620.192
Soggetti	Polymers
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 indexes.
Nota di contenuto	Oriented Polymer Materials; CONTENTS; Chapter 1. Problems of the physics of the oriented state of polymers; 1 . Introductory considerations; 1.1. Interplay of fundamental and applied problems . Molecular cybernetics; 1.2. Principal routes to the formation of uniaxially oriented structures in polymers; 2 . Configurational information and orientation phenomena in synthetic polymers; 2.1. Direct generation of orientational order from solutions and melts . Orientational hardening, orientational crystallization, and orientational catastrophes; 2.2. Assemblage; liquid crystalline polymers 2.3. Reconstruction3. Failure under load; 4. Some specific properties of superoriented polymers; 5. Technological implications; 6. General conclusions and summary; 6.1. What is clear?; 6.2. What is incomprehensible?; 6.3. What needs better understanding?; References; Chapter 2. Structural basis of high-strength high-modulus polymers; 1. Introduction; 2. Structural transformation in semicrystalline polymers on stretching; 2.1. Deformation mechanisms at small strain; 2.2. Folded-extended chain solid phase transition in the neck region

2.3. Micro- and microfibrillar structure in oriented polymers and its plastic deformation
2.4. Drawing arrest and fracture of oriented polymers; 2.5. Alternative mechanisms of drawing; 3. Deformation-induced strengthening of semicrystalline polymers; 3.1. Structural kinetic approach to the enhancement of polymer characteristics by deformation; 3.2. Physical criteria for the optimization of the drawing process; 3.3. Optimal molecular weight and molecular weight distribution; 4. Mechanical properties of highly oriented polymers; 5. Thermal properties of superstrong high-modulus polymers
6. Structural peculiarities of highly oriented polymers
References;
Chapter 3. X-ray diffraction by quasiperiodic polymer structures; 1. Introduction; 2. Qualitative phenomenological aspects; 2.1. Fibre diagrams; 2.2. Crystal density, chain cross section and chain conformation; 2.3. Anisotropy perpendicular to the chain direction, planes of plates; 2.4. Position sphere; 2.5. Lattice distortions of the first and second kind . Distortion parameter; 2.6. Special lattice types; 2.7. Small-angle scattering, fibrils, layer lattices; 3 . Basics of experiments; 3.1. X-ray spectrum and absorption
4 . Theoretical relationships
4.1. Structure factor; 4.2. The Ewald sphere; 4.3. Pair distribution; 4.4. A special application example; 5 . Simple lattice models; 5.1. Ideal periodic lattices; 5.2. Distortions of the first kind; 5.3. Distortions of the second kind; 5.4. Inhomogeneous coordination statistics; References;
Chapter 4. Characterization of polymer deformation by vibrational spectroscopy; 1. Introduction; 2. Experimental and instrumentation; 3. Orientational measurements by infrared dichroism; 4. Segmental mobility in liquid crystalline side-chain polymers
5. Rheo-optical FT-IR studies of the poly(ethylene terephthalate) film forming process

Sommario/riassunto

A book on the study of orientation and oriented polymers This book begins with an overview of the orientation phenomenon. Oriented Polymer Materials was published to focus on the importance of oriented polymeric materials. It includes basic techniques for the study and characterization of oriented polymers. It also covers different representatives of oriented polymer materials and approaches to the improvement of their mechanical properties. The book contains chapters produced by an array of contributing authors from around the world.
