

1. Record Nr.	UNINA990009880360403321
Autore	sponsored by the ACS Macromolecular Secretariat, the Society of
Titolo	Plastics Engineers, and the American Physical Society at the 176th meeting of the American Chemical Society : 176 th : <1978 Durability of macromolecular materials : based on a symposium / sponsored by the ACS Macromolecular Secretariat, the Society of Plastics Engineers, and the American Physical Society at the 176th meeting of the American Chemical Society, Miami, Florida, September 11-14, 1978 ; R. K. Eby, editor
Pubbl/distr/stampa	Washington : The Society, 1979
ISBN	0841204853
Descrizione fisica	XII, 476 p. : ill. ; 24 cm
Collana	ACS symposium series ; 95.
Altri autori (Persone)	Eby, Ronald K. (Ronald Kraft), <1929 -> American Chemical Society. Macromolecular Secretariat
Disciplina	620
Locazione	DINMP
Collocazione	14 P.007.025
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr.	UNINA990004873700403321
Autore	Gaucelm Faidit <1140?-1220?>
Titolo	Les poèmes de Gaucelm Faidit : troubadour du XIIe siècle / édition critique [de] Jean Mouzat
Pubbl/distr/stampa	Paris, : A.G. Nizet, 1965
Descrizione fisica	612 p. ; 23 cm
Disciplina	849.12
Locazione	FLFBC BAT
Collocazione	NX GA 167 BIB. BAT.4681
Lingua di pubblicazione	Francese (ca. 1400-1600) Francese
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3. Record Nr.	UNINA9911019793703321
Autore	Lagerwall Sven T (Sven Torbjorn)
Titolo	Ferroelectric and antiferroelectric liquid crystals / / Sven T. Lagerwall
Pubbl/distr/stampa	Weinheim ; ; New York, : Wiley-VCH, c1999
ISBN	9786611764197 9781281764195 1281764191 9783527613588 3527613587 9783527613595 3527613595
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. [405]-415) and index.
Nota di contenuto	Ferroelectric and Antiferroelectric Liquid Crystals; Contents; List of Symbols and Abbreviations; 1 Introduction; 2 Polar Materials and Effects; 2.1 Polar and Nonpolar Dielectrics; 2.2 The Nonpolarity of Liquid Crystals in General; 2.3 Behavior of Dielectrics in Electric Fields: Classification of Polar Materials; 2.4 Developments in the Understanding of Polar Effects; 2.5 The van der Waals Attraction and Born's Mean Field Theory; 2.6 Landau Preliminaries . The Concept of Order Parameter; 2.7 The Simplest Description of a Ferroelectric; 2.8 Improper Ferroelectrics; 2.9 The Piezoelectric Phase 3 The Necessary Conditions for Macroscopic Polarization3.1 The Neumann and Curie Principles; 3.2 Franz Neumann, Konigsberg, and the Rise of Theoretical Physics; 3.3 Neumann's Principle Applied to Liquid Crystals; 3.4 The Surface-Stabilized State; 3.5 Chirality and its Consequences; 3.6 The Curie Principle and Piezoelectricity; 3.7 Hermann's Theorem; 3.8 The Importance of Additional Symmetries; 3.9 Optical Activity and Enantiomorphism; 3.10 Non-Chiral Polar and NLO-Active Liquid Crystals; 4 The Flexoelectric Polarization; 4.1

Deformations from the Ground State of a Nematic

4.2 The Flexoelectric Coefficients; 4.3 The Molecular Picture; 4.4 Analogies and Contrasts to the Piezoelectric Effect; 4.5 The Importance of Rational Sign Conventions; 4.6 Singularities are Charged in Liquid Crystals; 4.7 The Flexoelectrooptic Effect; 4.8 Why Can a Cholesteric Phase not be Biaxial?; 4.9 Flexoelectric Effects in the Smectic A Phase; 4.10 Flexoelectric Effects in the Smectic C Phase; 5 The SmA* - SmC* Transition and the Helical C* State; 5.1 The Smectic C Order Parameter; 5.2 The SmA* - SmC* Transition; 5.3 The Smectic C* Order Parameters; 5.4 The Helical Smectic C* State; 5.5 The Flexoelectric Contribution in the Helical State; 5.6 Nonchiral Helielectrics and Antiferroelectrics; 5.7 Mesomorphic States without Director Symmetry; 5.8 Simple Landau Expansions; 5.9 The Electroclinic Effect; 5.10 The Deformed Helix Mode in Short Pitch Materials; 5.11 The Landau Expansion for the Helical C* State; 5.12 The Pikin-Indenbom Order Parameter; 6 Electrooptics in the Surface-Stabilized State; 6.1 The Linear Electrooptic Effect; 6.2 The Quadratic Torque; 6.3 Switching Dynamics; 6.4 The Scaling Law for the Cone Mode Viscosity; 6.5 Simple Solutions of the Director Equation of Motion; 6.6 Electrooptic Measurements; 6.7 Optical Anisotropy and Biaxiality; 6.8 The Effects of Dielectric Biaxiality; 6.9 The Viscosity of the Rotational Modes in the Smectic C Phase; 7 Dielectric Spectroscopy To Find the γ^a and e^a Tensor Components; 7.1 Viscosities of Rotational Modes; 7.2 The Viscosity of the collective Modes; 7.3 The Viscosity of the Noncollective Modes; 7.4 The Viscosity γ^o from Electrooptic Measurements; 7.5 The Dielectric Permittivity Tensor; 7.6 The Case of Helical Smectic C* Structures; 7.7 Three Sample Geometries; 7.8 Tilted Smectic Layers

Sommario/riassunto

The study of ferroelectricity is a branch of solid state physics which has shown rapid growth during the recent years. Ferroelectric materials exhibit unusual electric properties which make them useful in modern (opto)electronic technology, esp. display technology. Ferroelectric and antiferroelectric liquid crystals, including also various polymer forms, are the hottest research topic today in liquid crystals. The field is at the very beginning of industrial exploitation - a sensitive phase in which a good reference work is needed and will have a broad spectrum of readers both at universiti
