Record Nr. UNINA9910144686003321 Handbook of liquid crystals [[electronic resource]]. Volume 2B Low **Titolo** molecular weight liquid crystals II / / D. Demus ... [et al.] Pubbl/distr/stampa Weinheim;; New York,: Wiley-VCH, c1998 **ISBN** 1-283-86969-1 3-527-62063-X 3-527-62062-1 Descrizione fisica 1 online resource (581 p.) Altri autori (Persone) DemusDietrich Disciplina 530.429 Soggetti Liquid crystals Molecular weights Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Handbook of Liquid Crystals: Contents: Part II: Discotic Liquid Crystals: Chapter VI: Chiral Smectic Liquid Crystals; 1 Synthesis of Chiral Smectic Liquid Crystals; 1.1 Introduction; 1.2 Long Pitch Chiral Smectic Liquid Crystals or Dopants; 1.2.1 Schiff's bases; 1.2.2 Aromatic Esters with Alkyl Branched Alkyl Chains; 1.2.3 Aromatic Heterocycles with Alkyl-Branched Alkyl Chains; 1.2.4 Esters and Ethers in the Terminal Chain; 1.2.5 Halogens at the Chiral Center; 1.2.6 Cyclohexyl a-Fluorohexanoates; 1.2.7 Gyano Groups at the Chiral Center; 1.2.8 Optically Active Oxiranes and Thiiranes 1.2.9 Optically Active y-Lactones1.2.10 Optically Active &Lactones; 1.2.11 Miscellaneous Optically Active Heterocycles; 1.3 Short Pitch Chiral Smectic Liquid Crystals or Dopants: 1.3.1 Optically Active Terphenyl Diesters; 1.3.2 Optically Active Methyl-Substituted Dioxanes; 1.4 Antiferroelectric Liquid Crystals; 1.5 References; 2 Ferroelectric Liquid Crystals; 2.1 Introduction; 2.2 Polar Materials and Effects; 2.2.1 Polar and Nonpolar Dielectrics; 2.2.2 The Nonpolarity of Liquid Crystals in General; 2.2.3 Behavior of Dielectrics in Electric Fields: Classification of Polar Materials

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Sommario/riassunto

The Handbook of Liquid Crystals is a unique compendium of knowledge on all aspects of liquid crystals. In over 2000 pages the Handbook provides detailed information on the basic principles of both low- and high-molecular weight materials, as well as the synthesis, characterization, modification, and applications (such as in computer displays or as structural materials) of all types of liquid crystals. The five editors of the Handbook are internationally renowned experts from both industry and academia and have drawn together over 70 leading figures in the field as authors. The fo