Record Nr. UNINA9911019294303321 Autore Lueder Ernst <1932-> Titolo Liquid crystal displays: addressing schemes and electro-optical effects // Ernst Lueder Chichester, West Sussex, U.K.; Hoboken, NJ,: Wiley, 2010 Pubbl/distr/stampa **ISBN** 9786612549823 9781282549821 1282549820 9781613445037 1613445032 9780470688342 0470688343 9780470688182 0470688181 Edizione [2nd ed.] Descrizione fisica 1 online resource (517 p.) Wiley Series in Display Technology Collana Disciplina 621.3815422 Soggetti Liquid crystal displays Liquid crystals - Electric properties Liquid crystals - Optical properties 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 Liquid Crystal Displays: ADDRESSING SCHEMES AND ELECTRO-OPTICAL EFFECTS; Contents; Foreword; Preface to the First Edition; Preface to the Second Edition; About the Author; 1 Introduction; 2 Liquid Crystal Materials and Liquid Crystal Cells; 2.1 Properties of Liquid Crystals; 2.1.1 Shape and phases of liquid crystals; 2.1.2 Material properties of anisotropic liquid crystals; 2.2 The Operation of a Twisted Nematic LCD; 2.2.1 The electro-optical effects in transmissive twisted nematic

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Sommario/riassunto

In this second edition of Liquid Crystal Displays, Ernst Lueder provides a timely update to his successful text. His unique combination of theory and practice presents all the information required for the development and manufacture of modern high performance and energy saving LCDs. The author also strives for an easy to understand description of complex facts. The second edition focuses on a variety of liquid crystal cells and their electronic addressing, and outlines new developments including: High performance VA cells, especially for TV, due to two subpixels with excell