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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 LC cells; 2.2.2 The addressing of LCDs by TFTs; 3 Electro-optic Effects in Untwisted Nematic Liquid Crystals 3.1 The Planar and Harmonic Wave of Light 3.2 Propagation of Polarized Light in Birefringent Untwisted Nematic Liquid Crystal Cells; 3.2.1 The propagation of light in a Fr eedericksz cell; 3.2.2 The transmissive Fr eedericksz cell; 3.2.3 The reflective Fr eedericksz cell; 3.2.4 The Fr eedericksz cell as a phase-only modulator; 3.2.5 The DAP cell or the vertically aligned cell; 3.2.6 The HAN cell; 3.2.7 The cell; 3.2.8 Switching dynamics of untwisted nematic LCDs; 3.2.9 Fast blue phase

liquid crystals; 4 Electro-optic Effects in Twisted Nematic Liquid Crystals

4.1 The Propagation of Polarized Light in Twisted Nematic Liquid Crystal Cells
4.2 The Various Types of TN Cells; 4.2.1 The regular TN cell; 4.2.2 The supertwisted nematic LC cell (STN-LCD); 4.2.3 The mixed mode twisted nematic cell (MTN cell); 4.2.4 Reflective TN cells;
4.3 Electronically Controlled Birefringence for the Generation of Colour;
5 Descriptions of Polarization; 5.1 The Characterizations of Polarization; 5.2 A Differential Equation for the Propagation of Polarized Light through Anisotropic Media; 5.3 Special Cases for Propagation of Light
5.3.1 Incidence of linearly polarized light
5.3.2 Incident light is circularly polarized;
6 Propagation of Light with an Arbitrary Incident Angle through Anisotropic Media; 6.1 Basic Equations for the Propagation of Light; 6.2 Enhancement of the Performance of LC Cells;
6.2.1 The degradation of picture quality; 6.2.2 Optical compensation foils for the enhancement of picture quality; 6.2.2.1 The enhancement of contrast; 6.2.2.2 Compensation foils for LC molecules with different optical axes; 6.2.3 Suppression of grey shade inversion and the preservation of grey shade stability
6.2.4 Fabrication of compensation foils
6.3 Electro-optic Effects with Wide Viewing Angle; 6.3.1 Multidomain pixels; 6.3.2 In-plane switching; 6.3.3 Optically compensated bend cells; 6.4 Multidomain VA Cells, Especially for TV; 6.4.1 The torque generated by an electric field; 6.4.2 The requirements for a VA display, especially for TV; 6.4.2.1 The speeds of operation; 6.4.2.2 Colour shift, change in contrast and image sticking; 6.4.3 VA cells for TV applications; 6.4.3.1 Multidomain VA cells with protrusions (MVAs); 6.4.3.2 Patterned VA cells (PVAs)
6.4.3.3 PVA cells with two subpixels (CS-S-PVAs)

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
