

Liquid Crystal Displays for Information Processing (TFT & SM LCDs)

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We describe several important scientific as well as technological aspects of liquid crystals (LCs) in the area of information displays. First, various electro-optic effects in LCs are discussed along with their practical implications for flat-panel displays. Second, the performance criteria in two basic addressing schemes (passive & active) are classified, and the key parameters are evaluated. Finally, the current status and perspectives of LCDs are presented from the viewpoint of the worldwide market.