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Liquid crystal modulators are a kind of optical modulators which are based on liquid crystals. They are mostly used for displays, but also for various other purposes, as discussed in the section on applications below.

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Optics of Liquid Crystal Displays: Yeh, Pochi, Gu, Claire ... Owing to its unique physical properties, liquid crystals have found important applications in optics and optoelectronics, including the expanding technology of flat panels. This book presents an engineering-oriented,

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The optical characteristics of the device are dependent on the polarizing optics that sandwich it and the director structure of the liquid crystal within the bulk of the device. Usually, the glass plates have polarizers attached whose axes are appropriately orientated depending on the geometry of the display.

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Liquid Crystal Displays are dependent on the polarizer and the optical line itself. Natural light lines spread in all directions. The polarizer is actually a series of very thin parallel lines. These lines form a network that blocks all light that is not

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This means the refractive index of the liquid crystal for an optical wave with polarization parallel to the long axis of the molecule is n_e , while for an optical wave with polarization parallel to the short axis is n_o . Normally n_e is greater than n_o . Consider a liquid crystal cell as shown in Figure 2.

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Whereas in the past research was most focused on the the macroscopic quality and "cosmetic" appearance of the surface alignment in liquid crystal displays, we are nowadays more interested in the microscopic mechanisms and surface coupling

strengths for the potential future use in more complex systems.

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5.10.3. Liquid Crystal on Silicon (LCoS)
Summary References Suggested
Readings Problems Matrix Addressing,
Colors, and Properties of LCDs
Multiplexed Displays Active Matrix (AM)
Displays 6.2.1. Principle of Thin Film
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Fabrication 6.2.3. Cell Assembly Optical
Throughput of TFT-LCDs 6.3.1. Polarizers
6.3.2.

Optics of Liquid Crystal Displays - GBV
Optics of Liquid Crystal Displays
Abstract: This tutorial covers an
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and principles of operation of various
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as the development of birefringent
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*Optics of Liquid Crystal Displays - IEEE
Conference ...*

Thanks to the optical properties of LCs
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P. Yeh and C. Gu, *Optics of Liquid Crystal
Displays*, (John Wiley & Sons, 1999).
Recommended Software Mathematica,
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