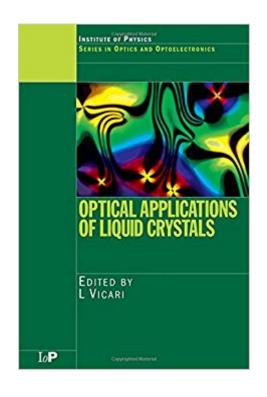


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# Optical Applications Of Liquid Crystals (Series In Optics And Optoelectronics)





## Synopsis

In recent years, there has been increasing activity in the research and design of optical systems based on liquid crystal (LC) science. Bringing together contributions from leading figures in industry and academia, Optical Applications of Liquid Crystals covers the range of existing applications as well as those in development. Unique in its thorough coverage of applications, not just the basic chemistry and physics of liquid crystals, the book begins with the existing applications of liquid crystals, from the ubiquitous LCD through to LC projectors and holography. The remaining chapters discuss more promising technologies in development, including photoaligning, photopatterning, and bistable twisted nematic LCs.

### **Book Information**

Series: Series in Optics and Optoelectronics Hardcover: 284 pages Publisher: CRC Press; 1 edition (May 20, 2003) Language: English ISBN-10: 0750308575 ISBN-13: 978-0750308571 Product Dimensions: 6.1 x 0.8 x 9.7 inches Shipping Weight: 1.4 pounds (View shipping rates and policies) Average Customer Review: Be the first to review this item Best Sellers Rank: #1,301,488 in Books (See Top 100 in Books) #87 inà Â Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Optoelectronics #111 inà Books > Science & Math > Chemistry > Crystallography #221 inà Â Books > Science & Math > Physics > Light

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"From Archimedis' adaptive optics of 214-211 BC - when he burned the Roman fleet seizing Syracuse, through Gabor's invention of holography in 1947-8, to today's technology and beyond, this book is a fascinating account of liquid crystal technology, principles and applications, and it gives a glimpse into the future, where smart pixels, smart windows, 3D television and electronic paper are the shape of things to come." Maria Petrou, Chemistry & Industry, 3rd Nov 03 rchimedis' adaptive optics of 214-211 BC - when he burned the Roman fleet seizing Syracuse, through Gabor's invention of holography in 1947-8, to today's technology and beyond, this book is a fascinating account of liquid crystal technology, principles and applications, and it gives a glimpse into the future, where smart pixels, smart windows, 3D television and electronic paper are the shape of things to come." Maria Petrou, Chemistry & Industry, 3rd Nov 03 "The widespread application of liquid crystals in optics and optoelectronics makes this a welcome book for the optical community. It offers a clear, up-to-date account of the engineering and industrial aspects of the use of liquid crystals in various fields of optics." Daniela Dragoman, OPN Nov 2004, Vol.15 No.11 despread application of liquid crystals in optics and optoelectronics makes this a welcome book for the optical community. It offers a clear, up-to-date account of the engineering and industrial aspects of the use of liquid crystals in various fields of optics." Daniela Dragoman, OPN Nov 2004, Vol.15 No.11 despread application of liquid crystals in optics and optoelectronics makes this a welcome book for the optical community. It offers a clear, up-to-date account of the engineering and industrial aspects of the use of liquid crystals in various fields of optics." Daniela Dragoman, OPN Nov 2004, Vol.15 No.11

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