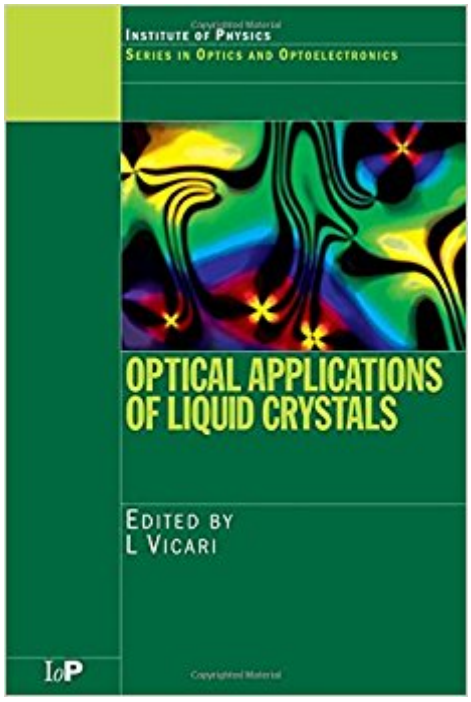
Optical Applications Of Liquid Crystals (Series In Optics And Optoelectronics)



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

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Customer Reviews

"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

Optical Applications of Liquid Crystals (Series in Optics and Optoelectronics) Handbook of Optics, Third Edition Volume V: Atmospheric Optics, Modulators, Fiber Optics, X-Ray and Neutron Optics Handbook of Optics, Third Edition Volume IV: Optical Properties of Materials, Nonlinear Optics, Quantum Optics (set) KDP - Family Single Crystals (Series in Optics and Optoelectronics) Molded Optics: Design and Manufacture (Series in Optics and Optoelectronics) Prism and Lens Making, Second Edition: A Textbook for Optical Glassworkers (Series in Optics and Optoelectronics) Thin-Film Optical Filters, Fourth Edition (Series in Optics and Optoelectronics) Thin-Film Optical Filters, Third Edition (Series in Optics and Optoelectronics) E-Juice Recipes: Shake and Vape E-Liquid Recipes For Your Electronic Cigarette, E-Hookah G-Pen: Quick and tasty E-liquid recipes that you can enjoy today. ... E-liquid recipes for DIY E-juicers. Book 3) Optical Thin Films: User's Handbook (Macmillan Series in Optical and Electro-Optical Engineering) Photonics Rules of Thumb: Optics, Electro-Optics, Fiber Optics and Lasers Polarized Light and the Mueller Matrix Approach (Series in Optics and Optoelectronics) Handbook of Silicon Photonics (Series in Optics and Optoelectronics) Quantum Entanglement in Electron Optics: Generation, Characterization, and Applications (Springer Series on Atomic, Optical, and Plasma Physics) Handbook of Organic Materials for Optical and (Opto)Electronic Devices: Properties and Applications (Woodhead Publishing Series in Electronic and Optical Materials) Optical Fiber Communication Systems (Artech House Optoelectronics Library) Liquid Soapmaking: Tips, Techniques and Recipes for Creating All Manner of Liquid and Soft Soap Naturally! Crystals and Stones: A Complete Guide to Their Healing Properties (The Group of 5 Crystals Series) The Essential Guide to Crystals: All the Crystals You Will Ever Need for Health, Healing, and Happiness (Essential Guides Series) Liquid Crystals: Experimental Study of Physical Properties and Phase Transitions