



Liquid Crystals, Applications and Uses, Vol. 2

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This book reviews comprehensively the technological, scientific, artistic and medical applications of liquid crystals. It starts with the basics of liquid crystals and covers electro-optical, thermo-optical, colour, polymeric, lyotropic, and scientific applications of liquid crystalline materials. It discusses the fabrication and operational principles of a full range of liquid crystal displays including dynamic scattering, twisted nematic, supertwisted nematic, dichroic, smectic A, ferroelectric, polymer dispersed, light valve, active matrix, etc., in detail. It also covers the emerging applications of liquid crystals such as optical computing, nonlinear optics, decorative and visual arts. Classification, theory, chemical structure, physical properties and surface alignment of liquid crystals have detailed chapters to facilitate the basic understanding of the science behind LCDs and other uses of liquid crystals. The chapters, liquid crystal polymers and lyotropic liquid crystals, give deep insight into these areas. The potential uses and applications are also described in detail.

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Editorial Review

Review

"Volume 2 of the book by Birendra Bahadur fills -- like already vol. 1 -- a gap in liquid crystal literature in that it reviews the multitude and rapidly expanding applications of liquid crystals in a concise and interesting way. The list of references attached to each of the very diverse chapters makes it a useful tool for experts in individual LC-fields as well as for students and educated laymen who attempt to get an overview over the immensely broad field of liquid crystals and their applications. To find in one and the same volume LC-display-related chapters as well as chapters on LC-art and biological LC-systems is fascinating." M Schadt
Molecular Crystals & Liquid Crystals Letters Section, 1991

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