



Liquid Crystals: Physical Properties and Nonlinear Optical Phenomena

Iam-Choon Khoo

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An excellent professional reference and a superior upper-level student text, this landmark book offers readers the first comprehensive treatment of all the basic principles underlying the unique physical and optical properties of liquid crystals. Written by a noted pioneer in the nonlinear optics of liquid crystals, it also provides an authoritative, in-depth discussion of the mechanisms and theoretical principles behind all major nonlinear optical phenomena occurring in liquid crystals.

- Includes an exhaustive treatment of the physical properties and molecular and chemical structures of the thermotropic liquid crystals
- Examines the theoretical aspects of their isotropic and liquid crystalline phases, including order parameters, elastic constant, Free energy, viscosity and flows, refractive indices, and birefringence
- Covers new materials such as polymeric liquid crystals, polymer dispersed liquid crystals, dyedoped liquid crystals, and ferroelectric liquid crystals
- Delineates all known mechanisms for optical nonlinearities in the principal mesophases of liquid crystals
- Provides a comprehensive summary of all major nonlinear optical phenomena observed in liquid crystals to date

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