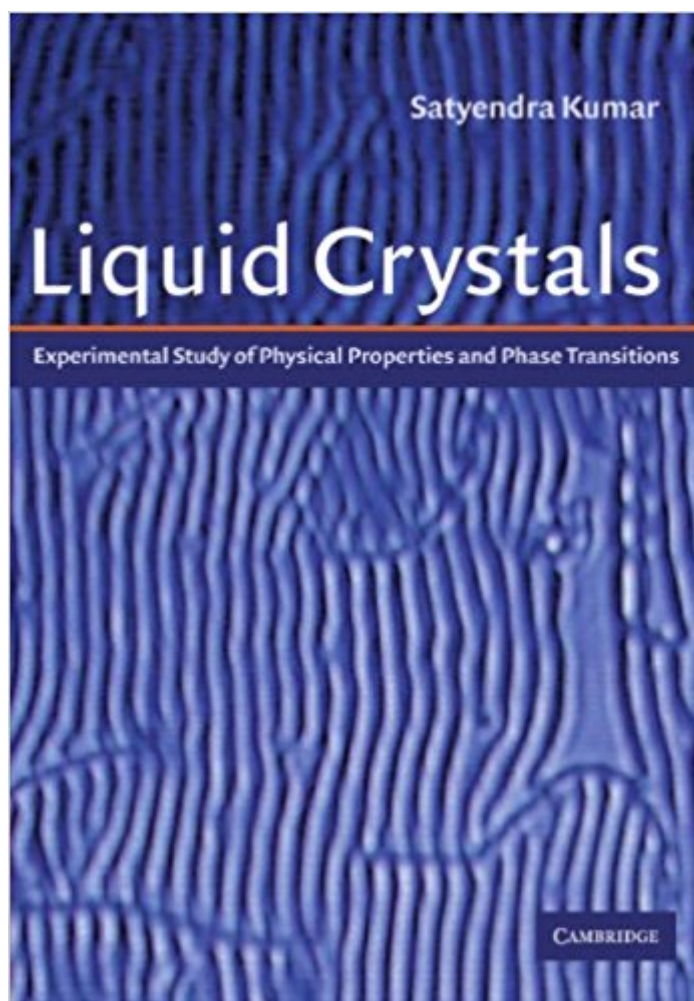


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# Liquid Crystals: Experimental Study Of Physical Properties And Phase Transitions



## Synopsis

This hands-on guide details various experimental techniques used in the study of liquid crystals and other soft-condensed matter systems. Each chapter portrays an important technique used to study and characterize these systems, fully discussing both the capabilities and limitations of each particular method. In addition, the volume also describes general routes used to synthesize liquid crystals, tools to characterize liquid crystal phases, and seeks to show structure property relationships for well known systems. This book will be indispensable for established workers in the field as well as students embarking on liquid crystal research.

## Book Information

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"...a remarkable work that is especially well suited to the needs of advanced graduate students familiar with the basics of condensed matter physics and the structural aspects of material science. It is comprehensive, judicious in its choices and the style is crisp and concise...the book I show to students first is Kumar's." Christian Brosseau, Université de Bretagne Occidentale, Brest, France "Liquid Crystals competently and elegantly covers the principal techniques used to investigate liquid crystals...Kumar has achieved his goal of producing a volume of practical information with 'in-depth technical details'. For students about to embark on experimental investigations of thermotropic, nematic or smectic systems, this book could be one of their best buys." Nature "...a valuable addition to the literature on liquid crystalline materials in general...beautifully produced, with the obligatory color plates showing some of the remarkable textures exhibited by these fascinating materials." Polymer News "This is a book from which a great

deal of information may be retrieved efficiently, and so a complete, well-designed index is a must. I sampled a variety of topics in the index; it passed my test. I like this book very much, for many reasons. It is comprehensive, judicious in its choices and the style is crisp and concise. It is a pleasure for me to recommend this book for its outstanding depiction of the fundamentals of liquid crystals." Optics and Photonics News "The present book is beautifully produced, with the obligatory color plates showing some of the remarkable textures exhibited by these fascinating materials." Polymer News, 2001

This book provides hands-on details of various different techniques used in the study of liquid crystals and other soft-condensed matter systems. Each chapter in the book is dedicated to the use of an important experimental technique and discusses both its capabilities and limitations. In addition, general routes used to synthesize liquid crystals and tools to characterize liquid crystal phases are described. This book will be of particular interest to researchers in the fields of liquid crystals and soft condensed matter as well as graduate students in physics, chemistry and materials science.

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