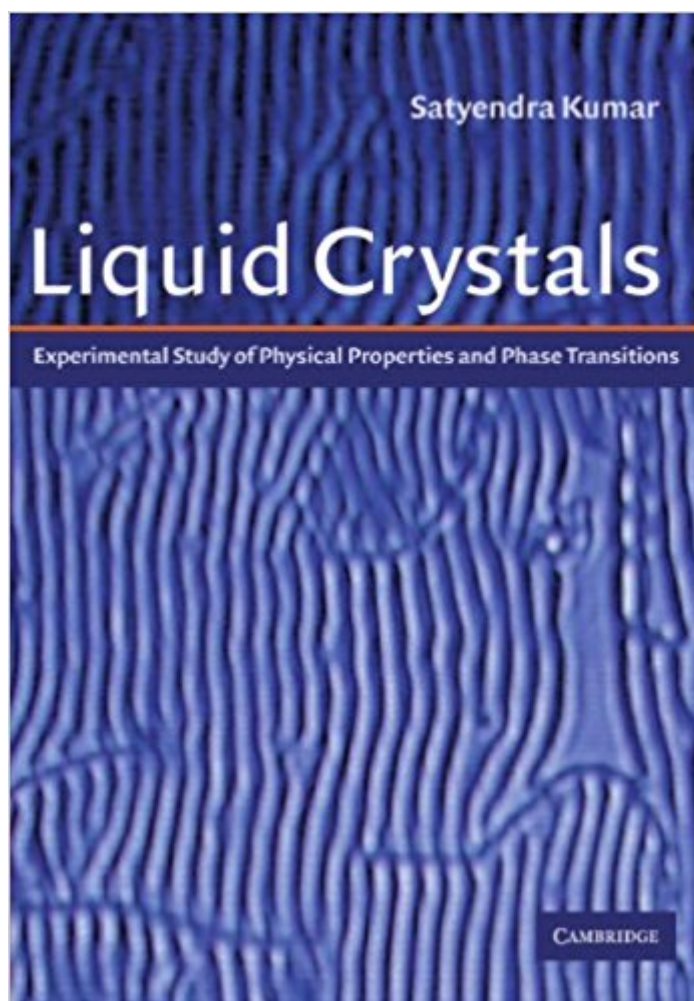


The book was found

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

Paperback: 518 pages

Publisher: Cambridge University Press; 1 edition (April 28, 2011)

Language: English

ISBN-10: 052118794X

ISBN-13: 978-0521187947

Product Dimensions: 6.7 x 1 x 9.6 inches

Shipping Weight: 2.2 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #4,981,198 in Books (See Top 100 in Books) #57 in [Books > Science & Math > Chemistry > Chemical Physics](#) #2250 in [Books > Science & Math > Physics > Solid-State Physics](#) #12103 in [Books > Textbooks > Science & Mathematics > Physics](#)

Customer Reviews

"...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.

[Download to continue reading...](#)

Liquid Crystals: Experimental Study of Physical Properties and Phase Transitions Landau Theory Of Phase Transitions, The: Application To Structural, Incommensurate, Magnetic And Liquid Crystal Systems (World Scientific Lecture Notes in Physics) 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) Liquid Crystals: Nature's Delicate Phase of Matter, Second Edition. Crystals and Stones: A Complete Guide to Their Healing Properties (The Group of 5 Crystals Series) Symmetry, Group Theory, and the Physical Properties of Crystals (Lecture Notes in Physics) Physical Properties of Crystals: Their Representation by Tensors and Matrices PeriAnesthesia Nursing Core Curriculum: Preprocedure, Phase I and Phase II PACU Nursing, 2e PeriAnesthesia Nursing Core Curriculum: Preoperative, Phase I and Phase II PACU Nursing, 1e PeriAnesthesia Nursing Core Curriculum: Preprocedure, Phase I and Phase II PACU Nursing, 3e Phase Transitions and Critical Phenomena, Volume 8 Structural Phase Transitions in Layered Transition Metal Compounds (Physics and Chemistry of Materials with A) Phase Transitions in Polymers: The Role of Metastable States The Fourth Phase of Water: Beyond Solid, Liquid, and Vapor Working Guide to Vapor-Liquid Phase Equilibria Calculations Liquid Soapmaking: Tips, Techniques and Recipes for Creating All Manner of Liquid and Soft Soap Naturally! Optical Applications of Liquid Crystals (Series in Optics and Optoelectronics) 101 Power

Crystals: The Ultimate Guide to Magical Crystals, Gems, and Stones for Healing and Transformation
Crystals: Crystal Healing For Beginners, Discover The Healing Power Of Crystals And Healing Stones To Heal The Human Energy Field, Relieve Stress and Experience Instant Relaxation !-THIRD EDITION- Crystal Healing: Charge Up Your Mind, Body And Soul - Beginner's Journey (Crystal Healing For Beginners, Chakras, Meditating With Crystals, Healing Stones, Crystal Magic, Power of Crystals Book 1)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)