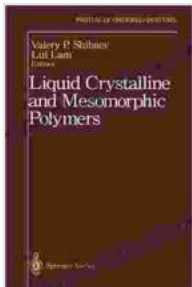


Liquid Crystalline and Mesomorphic Polymers: Partially Ordered Systems

Liquid crystalline and mesomorphic polymers are materials that exhibit both liquid-like and crystalline-like properties. They are typically composed of long, rod-like molecules that can align themselves in a partially ordered manner. This gives them unique properties that make them useful in a wide range of applications, such as displays, sensors, and actuators.



Liquid Crystalline and Mesomorphic Polymers (Partially Ordered Systems) by Lui Lam

★★★★☆ 4.3 out of 5

Language : English

File size : 6582 KB

Text-to-Speech : Enabled

Screen Reader : Supported

Print length : 361 pages



This book provides a comprehensive overview of the field of liquid crystalline and mesomorphic polymers, covering both the fundamental principles and the latest research developments. It is essential reading for anyone working in this field, and will also be of interest to those working in related fields such as polymer science, materials science, and chemistry.

Fundamental Principles

The first part of the book introduces the fundamental principles of liquid crystalline and mesomorphic polymers. This includes a discussion of the different types of liquid crystalline phases, the molecular structure of liquid crystalline polymers, and the thermodynamics of liquid crystalline transitions.

Synthesis and Characterization

The second part of the book covers the synthesis and characterization of liquid crystalline and mesomorphic polymers. This includes a discussion of the different methods used to synthesize these materials, as well as the techniques used to characterize their properties.

Applications

The third part of the book explores the applications of liquid crystalline and mesomorphic polymers. This includes a discussion of their use in displays, sensors, actuators, and other devices.

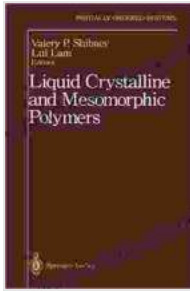
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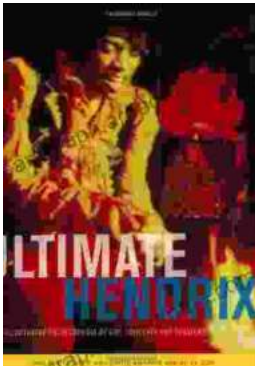
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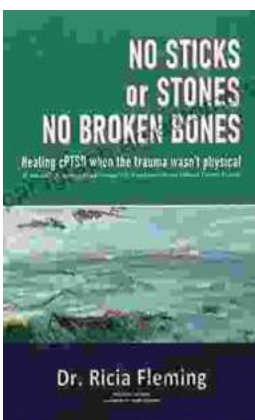


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