

Nematic and Cholesteric Liquid Crystals: Concepts and Physical Properties Illustrated by Experiments (Liquid Crystals Book Series)

Patrick Oswald, Pawel Pieranski



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Liquid crystals allow us to perform experiments that provide insight into fundamental problems of modern physics, such as phase transitions, frustration, elasticity, hydrodynamics, defects, growth phenomena, and optics (linear and non linear). This excellent volume meets the need for an up-to-date text on liquid crystals.

Nematic and Cholesteric Liquid Crystals: Concepts and Physical Properties Illustrated by

Experiments is a result of personal research and of the graduate lectures given by the authors at the École Normale Supérieure de Lyon and the University of Paris VII, respectively. The first part of the book presents historical background, the modern classification of liquid crystals, and mesogenic anatomy; the second part examines liquid crystals with nematic and cholesteric orientational order. Topics include dielectric and magnetic properties, Frederiks transitions and displays, light scattering, flow and electrohydrodynamic instabilities, surface anchoring transitions, interfaces, equilibrium shapes, and the Mullins-Sekerka instability. Smectic and columnar liquid crystals are covered in more detail by the authors in a separate volume, entitled Smectic and Columnar Liquid Crystals: Concepts and Physical Properties Illustrated by Experiments.

The presentation is illustrated throughout by simple experiments, some of which were performed in class. **Nematic and Cholesteric Liquid Crystals: Concepts and Physical Properties Illustrated by Experiments** provides a useful reference intended for advanced undergraduate and graduate students and researchers in liquid crystals, condensed matter physics, and materials science.



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The guide untitled Nematic and Cholesteric Liquid Crystals: Concepts and Physical Properties Illustrated by Experiments (Liquid Crystals Book Series) is the guide that recommended to you you just read. You can see the quality of the guide content that will be shown to you. The language that article author use to explained their way of doing something is easily to understand. The article author was did a lot of study when write the book, so the information that they share to your account is absolutely accurate. You also will get the e-book of Nematic and Cholesteric Liquid Crystals: Concepts and Physical Properties Illustrated by Experiments (Liquid Crystals Book Series) from the publisher to make you more enjoy free time.

Cheryl Fenske:

Precisely why? Because this Nematic and Cholesteric Liquid Crystals: Concepts and Physical Properties Illustrated by Experiments (Liquid Crystals Book Series) is an unordinary book that the inside of the publication waiting for you to snap the idea but latter it will jolt you with the secret the item inside. Reading this book close to it was fantastic author who write the book in such amazing way makes the content interior easier to understand, entertaining means but still convey the meaning totally. So, it is good for you because of not hesitating having this anymore or you going to regret it. This excellent book will give you a lot of rewards than the other book get such as help improving your proficiency and your critical thinking method. So, still want to hold up having that book? If I have been you I will go to the guide store hurriedly.

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