



# Liquid Crystals and Biological Structures

*Glenn Halstead Brown*

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## **Liquid Crystals and Biological Structures** Glenn Halstead Brown

Liquid Crystals & Biological Structures covers analogies between biological structures and behavior of living cells to liquid crystalline structures and their behavior. It emphasizes that the physical state of the matter involved in life processes is to a great extent liquid crystalline.

The first chapters discuss the physical, chemical, structural, and optical properties of liquid crystals, as well as the structure of the principal molecules associated with life systems. The core chapters cover selected cellular structures exhibiting liquid crystalline behavior to emphasize the nature of various cellular membranes, from the cell membranes to the receptors and effectors. The book also considers differentiated organelles of the cell that are specialized for photoreception, including chloroplasts for photosynthesis, the retinal photoreceptors of the eye, and the rods and cones for visual excitation.

This book is suited for students and bioscientists who are interested in the potential of the liquid crystalline state in exploring a variety of biological phenomena.

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