



Soft Condensed Matter

By R Jones Ph., Department of Physics and Astronomy Richard A L Jones

Oxford University Press, United Kingdom, 2002. Paperback. Book Condition: New. Corr. repr.. 244 x 188 mm. Language: English . Brand New Book. The physics of soft condensed matter is probably one of the most fashionable areas in the physical sciences today. This book offers a coherent and clear introduction to the properties and behaviour of soft matter. It begins with a treatment of the general underlying principles: the relation of the structure and dynamics of solids and liquids to intermolecular forces, the thermodynamics and kinetics of phase transitions, and the principles of self-assembly. Then the specific properties of colloids, polymers, liquid crystals and self-assembling amphiphilic systems are treated within this framework. A concluding chapter illustrates how principles of soft matter physics can be used to understand properties of biological systems. The focus on the essentials and the straightforward approach make the book suitable for students with either a theoretical or an experimental bias. The level is appropriate for final year undergraduates and beginning graduate students in physics, chemistry, materials science, and chemical engineering.



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