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## Soft Matter Physics An Introduction Partially Ordered Systems

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crystals, with few atoms per cell, bonded together by strong ionic, covalent, or metallic bonds.

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What do colloids, fractals, liquid crystals, and polymers have in common? Nothing at first sight. Yet the distance scales, the energy transfers, the way these objects react to an external field are ve

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Soft matter or soft condensed matter is a subfield of condensed

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matter comprising a variety of physical systems that are deformed or structurally altered by thermal or mechanical stress of the magnitude of thermal fluctuations. They include liquids, colloids, polymers, foams, gels, granular materials, liquid crystals, pillows, flesh, and a number of biological materials.

## **Soft matter - Wikipedia**

These lectures are intended as an introduction to soft condensed matter physics. The techniques we will use are classical mechanics, thermodynamics and statistical physics. We will emphasise the general principles underlying the macroscopic properties of soft matter, with the aim to provide students with the physical concepts necessary to ...

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Kleman, M., Lavrentovich, O.D.: Soft Matter Physics. An Introduction. XXV, 637 pp. Springer, Berlin Heidelberg New York Tokyo 2003. Hardcover EUR 39.95 (excl. VAT ...

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This book presents the theory of soft matter to students at the advanced undergraduate or beginning graduate level. It provides a basic introduction to theoretical physics as applied to soft matter, explaining the concepts of symmetry, broken symmetry, and order parameters; phases and phase transitions; mean-field theory; and the mathematics of variational calculus and tensors.

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