



Advances in the Computer Simulations of Liquid Crystals

Edited by

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Advances In The Computer Simulations Of Liquid Crystals

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Advances In The Computer Simulations Of Liquid Crystals:

Advances in the Computer Simulations of Liquid Crystals Paolo Pasini, Claudio Zannoni, 2013-11-11 Computer simulations provide an essential set of tools for understanding the macroscopic properties of liquid crystals and of their phase transitions in terms of molecular models While simulations of liquid crystals are based on the same general Monte Carlo and molecular dynamics techniques as are used for other fluids they present a number of specific problems and peculiarities connected to the intrinsic properties of these mesophases The field of computer simulations of anisotropic fluids is interdisciplinary and is evolving very rapidly The present volume covers a variety of techniques and model systems from lattices to hard particle and Gay Berne to atomistic for thermotropics lyotropics and some biologically interesting liquid crystals Contributions are written by an excellent panel of international lecturers and provides a timely account of the techniques and problems in the field

Computer Simulations of Liquid Crystals and Polymers Paolo Pasini, Slobodan Žumer, Claudio Zannoni, 2005 Advances in the Computer Simulations of Liquid Crystals Paolo Pasini, Claudio Zannoni, 2000 Proceedings of the NATO Advanced Study Institute Erice 11-21 June 1998 Defects in Liquid Crystals: Computer Simulations, Theory and Experiments Oleg D.

Lavrentovich, Paolo Pasini, Claudio Zannoni, Slobodan Zumer, 2012-12-06 Topological defects are the subject of intensive studies in many different branches of physics ranging from cosmology to liquid crystals and from elementary particles to colloids and biological systems Liquid crystals are fascinating materials which present a great variety of these mathematical objects and can therefore be considered as an extremely useful laboratory for topological defects This book is the first attempt to present together complementary approaches to the investigations of topological defects in liquid crystals using theory experiments and computer simulations Advanced Computer Simulation Approaches for Soft Matter Sciences I

Christian Holm, Kurt Kremer, 2005-02-14 Soft matter science is nowadays an acronym for an increasingly important class of materials which ranges from polymers liquid crystals colloids up to complex macromolecular assemblies covering sizes from the nanoscale up to the microscale Computer simulations have proven as an indispensable if not the most powerful tool to understand properties of these materials and link theoretical models to experiments In this first volume of a small series recognized leaders of the field review advanced topics and provide critical insight into the state of the art methods and scientific questions of this lively domain of soft condensed matter research **Recent developments in the computer**

simulations of liquid crystals : Erice, Italy ; 18 June 1998 Cesare Chiccoli, 1999 **Advanced Computer Simulation Approaches for Soft Matter Sciences II** Christian Holm, Kurt Kremer, 2005-11-10 This series presents critical reviews of the present and future trends in polymer and biopolymer science including chemistry physical chemistry physics and materials science It is addressed to all scientists at universities and in industry who wish to keep abreast of advances in the topics covered Impact Factor Ranking Always number one in Polymer Science More information as well as the electronic version of the whole content available at www.springerlink.com Defects in Liquid Crystals: Computer Simulations, Theory

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