



Computer Simulations of Liquid Crystals and Polymers

Edited by

Paolo Pasini, Claudio Zannoni and
Slobodan Žumer

NATO Science Series

II. Mathematics, Physics and Chemistry – Vol. 177

2005, XVI, 364 p.

Printed book

Hardcover

339,00 € | £252.50 | \$389.00

^[1]362,73 € (D) | 372,90 € (A) | CHF

400,00

Softcover

144,99 € | £127.50 | \$179.00

^[1]155,14 € (D) | 159,49 € (A) | CHF

171,00

eBook

117,69 € | £102.00 | \$139.00

^[2]117,69 € (D) | 117,69 € (A) | CHF

136,50

Available from your library or

springer.com/shop

MyCopy ^[3]

Printed eBook for just

€ | \$ 24.99

springer.com/mycopy

Paolo Pasini, Claudio Zannoni, Slobodan Žumer (Eds.)

Computer Simulations of Liquid Crystals and Polymers

Proceedings of the NATO Advanced Research Workshop on
Computational Methods for Polymers and Liquid Crystalline Polymers,
Erice, Italy. 16-22 July 2003

Series: Nato Science Series II:

Liquid crystals, polymers and polymer liquid crystals are soft condensed matter systems of major technological and scientific interest. An understanding of the macroscopic properties of these complex systems and of their many and interesting peculiarities at the molecular level can nowadays only be attained using computer simulations and statistical mechanical theories. Both in the Liquid Crystal and Polymer fields a considerable amount of simulation work has been done in the last few years with various classes of models at different special resolutions, ranging from atomistic to molecular and coarse-grained lattice models. Each of the two fields has developed its own set of tools and specialized procedures and the book aims to provide a state of the art review of the computer simulation studies of polymers and liquid crystals. This is of great importance in view of a potential cross-fertilization between these connected areas which is particularly apparent for a number of experimental systems like, e.g. polymer liquid crystals and anisotropic gels where the different fields necessarily merge. An effort has been made to assess the possibilities of a coherent description of the themes that have developed independently, and to compare and extend the theoretical and computational techniques put forward in the different areas.

Order online at springer.com / or for the Americas call (toll free) 1-800-SPRINGER / or email us at: customerservice@springernature.com. / For outside the Americas call +49 (0) 6221-345-4301 / or email us at: customerservice@springernature.com.

The first € price and the £ and \$ price are net prices, subject to local VAT. Prices indicated with [1] include VAT for books; the €(D) includes 7% for Germany, the €(A) includes 10% for Austria. Prices indicated with [2] include VAT for electronic products; 19% for Germany, 20% for Austria. All prices exclusive of carriage charges. Prices and other details are subject to change without notice. All errors and omissions excepted. [3] No discount for MyCopy.

