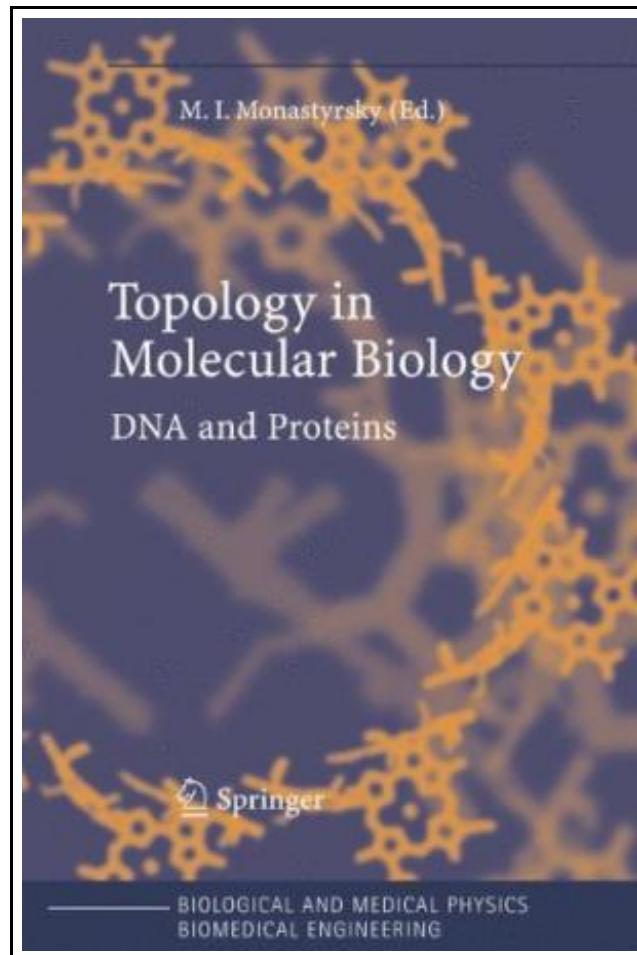


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Springer. Hardcover. Book Condition: New. Hardcover. 238 pages. Dimensions: 9.3in. x 6.3in. x 0.6in. The contents of this book focus on the recent investigations in molecular biology where applications of topology seem to be very stimulating. The volume is based on the talks and lectures given by participants of the three-month program *Topology in Condensed Matter*, which was held in the Max-Planck-Institut für Physik komplexer Systeme, Dresden, Germany, 8 May–31 July 2002, under the scientific direction of Professors M. Klieman, S. Novikov and - self. The aim of this program was to discuss recent applications of topology to several areas in condensed matter physics and molecular biology. The first volume *Topology in Condensed Matter* is concerned with modern applications of geometrical and topological techniques to such new and classic fields of physics like electron theory of metals, theory of nano-crystals, aperiodic and liquid crystals, quantum computation and so on. This volume is published simultaneously in Springer Series in Solid-State Physics. The present volume gives an exposition of the role of topology in the theory of proteins and DNA. The last thirty years have been very efficient - plications of modern mathematics, especially topology, in physics. The union of mathematics and physics was very stimulating for both sides. On the other hand, the impact of mathematics in biology has been rather limited. However, here also some interesting results were obtained. In particular, there are applications of knot theory in the theory of circular closed DNA. The recent discoveries in molecular biology indicate future successful applications of topology. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Hardcover.



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