



Topology in Molecular Biology: DNA and Proteins

By -

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 Institute for Physik komplexer Systeme, Dresden, Germany, from May 31 to July 2002, under the scientific direction of Professors M. Kloman, S. Novikov and myself. 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 armed very efficient applications 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...



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