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Ecole d'Aetae de Physique des Houches: Session LXXXII, 2-27 August 2004 : Euro Summer School, NATO Advanced Study Institute, aEcole Thaematique du CNRS : Multiple Aspects of DNA and RNA : From

By -

ELSEVIER SCIENCE TECHNOLOGY, United Kingdom, 2005. Hardback. Book Condition: New. 226 x 154 mm. Language: English . Brand New Book. This book is dedicated to the multiple aspects, that is, biological, physical and computational of DNA and RNA molecules. These molecules, central to vital processes, have been experimentally studied by molecular biologists for five decades since the discovery of the structure of DNA by Watson and Crick in 1953. Recent progresses (e.g. use of DNA chips, manipulations at the single molecule level, availability of huge genomic databases.) have revealed an imperious need for theoretical modelling. Further progresses will clearly not be possible without an integrated understanding of all DNA and RNA aspects and studies. The book is intended to be a desktop reference for advanced graduate students or young researchers willing to acquire a broad interdisciplinary understanding of the multiple aspects of DNA and RNA. It is divided in three main sections: The first section comprises an introduction to biochemistry and biology of nucleic acids. The structure and function of DNA are reviewed in R. Lavery's chapter. The next contribution, by V. Fritsch and E. Westhof, concentrates on the folding properties of RNA molecules. The cellular processes involving these...



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