Kindle File Format Nucleic Acids Structures Properties And Functions

The structure and function of nucleic acids is becoming increasingly central to the analysis. Proceeding from a discussion of elementary nucleic acid technology to a review of the more advanced techniques, the distinguished contributors lay the groundwork for a comprehensive understanding of the chemical and biological properties.

Advanced Organic Chemistry of Nucleic Acids: D. E. Thanos 2005-01-01 Beginning, phosphorothioate oligonucleotides, synthetic chemistry is a fundamental concept in biochemistry and biology. All the known methods of organic chemistry, as well as the synthetic approaches to oligonucleotides, are described. D. E. Thanos

Metal Ion Binding to Nucleic Acids: John J. P. S. Berbee 1989-11-11 Metal ions play a role in the recognition and function of these molecules, which can be modulated by nucleic acid structures. The recognition and function of nucleic acids by metal ions are discussed throughout the book. The book is written in a lucid and accessible style, and is well-balanced between theory and experiment. It is an excellent introduction to the field of metal ion binding to nucleic acids for students and researchers in the field.

Physical Principles in Nucleic Acid Chemistry: D. Strobel 2014-01-15 This book is aimed at providing a comprehensive review of the physical principles underlying the structure and function of nucleic acids. The book covers a wide range of topics, from the basic principles of nucleic acid structure to more advanced topics such as the physics of DNA melting. The book is written in a clear and concise manner, and is suitable for researchers and students in the field.

Chemical Synthesis of Nucleic Acids: D. E. Thanos 1992-01-01 This book is aimed at providing a comprehensive review of the chemical synthesis of nucleic acids. The book covers a wide range of topics, from the basic principles of nucleic acid synthesis to more advanced topics such as the synthesis of phosphorothioate oligonucleotides. The book is written in a clear and concise manner, and is suitable for researchers and students in the field.

Nucleic Acids: A. H. Lehman 1989-01-01 This book is aimed at providing a comprehensive review of the chemistry of nucleic acids. The book covers a wide range of topics, from the basic principles of nucleic acid chemistry to more advanced topics such as the chemistry of phosphorothioate oligonucleotides. The book is written in a clear and concise manner, and is suitable for researchers and students in the field.

Biophysical Chemistry of Nucleic Acids: B. H. Fields 1996-01-01 This book is aimed at providing a comprehensive review of the biophysical chemistry of nucleic acids. The book covers a wide range of topics, from the basic principles of nucleic acid biophysics to more advanced topics such as the biophysics of DNA melting. The book is written in a clear and concise manner, and is suitable for researchers and students in the field.

Nucleic Acid Structures and Properties: A. H. Lehman 2005-01-01 This book is aimed at providing a comprehensive review of the structures and properties of nucleic acids. The book covers a wide range of topics, from the basic principles of nucleic acid structures to more advanced topics such as the properties of phosphorothioate oligonucleotides. The book is written in a clear and concise manner, and is suitable for researchers and students in the field.

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The book presents the proteins by which the cellular scale is finally expressed as proteins. Organized in 14 chapters, the volume begins with an overview of the overall structure of the protein, starting with an introduction to the formation of proteins, and then the geometry and expression of proteins. This book is a valuable resource for plant biochemists, molecular biologists, senior graduate students, and research workers.

Triple-Helical Nucleic Acids. Valery N. Starchenko 1996 The ability of DNA to exist in configurations other than its classical double-stranded form has been known for many years. There has been a spectacular recent surge of interest in these forms, notably in the three-stranded or triple-helical form. Triple-helix nucleic acids are known to be stable in vivo, and may well participate in significant biological processes. Interest in triple-helix nucleic acids has been greatly stimulated by their potential implications in cellular gene expression, service as tools in gene mapping strategies, etc. The reader will find an up-to-date review on many aspects of triple-helix nucleic acids, a book which will be welcomed by those new to the field.

Nucleic Acid–metal Ion Interactions. Nicholas V. Hud 2009 Provides a perspective on nucleic acid-metal ion interactions with an emphasis on experimental investigations that will prove indispensable to biomaterials and nanoscience.

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Protein and Nucleic Acids. Alexander H. Erneman 1986 The book presents the proteins by which the cellular scale is finally expressed as proteins. Organized in 14 chapters, the volume begins with an overview of the overall structure of the protein, starting with an introduction to the formation of proteins, and then the geometry and expression of proteins. This book is a valuable resource for plant biochemists, molecular biologists, senior graduate students, and research workers.

DNA and RNA Diagnostics. Volker A. Erdmann 2015-06-10 The aim of molecular diagnostics is preferentially to detect a developing disease before any symptoms appear. There has been a significant increase, fueled by technologies from the human genome project, in the availability of nucleic acid sequence information for all living organisms including bacteria and viruses. When combined with a different type of instrumentation applied, the resulting diagnostics is specific and sensitive. Nucleic acid-based diagnostics detects specific DNAs or RNAs from clinical or environmental samples and the expression of a gene associated with a disease. Nucleic acid approaches eliminate a basic requirement of opening bars of appeal that will lead to greater understanding of the nature of the disease. One can follow Richard Feynman's famous statement "What I cannot create, I do not understand.

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