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Species; 2.4.2 Effect of Substituents in the Carbohydrate Moiety; 2.4.3 Mechanism of Hydrolysis of N-Glycosidic Bonds; 2.5 Properties of Pseudouridine; References; 3 Structure of Nucleotides; 3.1 Introduction; 3.2 Nomenclature and Isomerism; 3.3 Structure of Nucleotides; 3.3.1 Nucleoside 5'-Phosphates; 3.3.2 Nucleoside 3'- and 2'-Phosphates; 3.3.3 Nucleoside Cyclic Phosphates; 3.3.4 Nucleoside 3'(2').5'-Diphosphates; 3.4 General Comments Regarding the Structure of Monomer Units in Nucleic Acids; References

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Sommario/riassunto

Sequencing, cloning, transcription - these are but a few key techniques behind the current breathtaking advances in molecular biology and biochemistry. As these methods continuously diversify, biochemists need a sound chemical understanding to keep the pace. Chemists beginning working in the molecular biology lab need an introduction to this field from their point of view. This book serves both: it describes most of the known chemical reactions of nucleosides, nucleotides, and nucleic acids in sufficient detail to provide the desired background, and additionally, the fundamental relations betwe

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