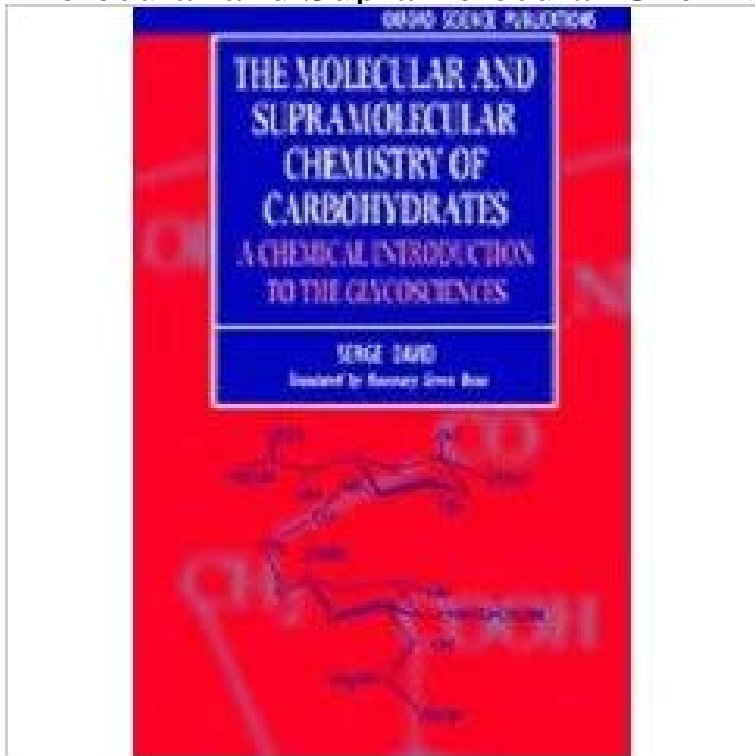


Molecular and Supramolecular Chemistry of Carbohydrates



There is currently a great deal of interest in carbohydrate research among chemists and biologists, in both academic and industrial laboratories. One reason is the involvement of oligosaccharide molecules in many recognition phenomena in the living world. Another reason is the growing demand for chiral synthesis sugars are an amazingly cheap source of chirality but must be efficiently processed. Thirdly the role of conformation in carbohydrate interactions has stimulated much experimental and theoretical work. There are causal links between advances in each of these fields, from molecular orbitals to immunochemistry, so that no research worker in his narrow specialisation can afford to ignore what is going on elsewhere. Thus a body of knowledge has been built from what is now called the glycosciences. This book attempts to describe glycosciences in their true perspective. Organic chemistry is the backbone of the presentation, but carbohydrate chemistry offers a wealth of supramolecular associations. This book is unique, among similar texts on carbohydrates, in that half its content is devoted to the description of important examples of such interactions. This book is intended for postgraduate students, academics and researchers in industry involved in carbohydrate chemistry.

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