



Carbohydrate Chemistry and Biochemistry: Structure and mechanism

By Michael Sinnott

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This graduate text book provides researchers new to the subject with information on the structure and mechanisms in the chemistry, biochemistry or processing of carbohydrates. The book contains everything the reader needs to know about a non-synthetic carbohydrate research project.

It gives excellent coverage of carbohydrate chemistry and biochemistry, particularly including the principles of reactivity, in the process industries, such as pulp, paper and food. It also employs use of the same concepts to describe enzymic and non-enzymic reactivity.

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Editorial Review

Review

"the overall view of the text is favorable, since it covers so many varied topics, some perhaps unfamiliar to even the most seasoned glycobiologists" (Joseph Barchi)

"...this is an excellent treatment of carbohydrate chemistry. It belongs in libraries and on the bookshelves of carbohydrate chemists and biochemists." (D Eric Walters *Journal of Medicinal Chemistry*, 2008, Vol 51, No 19)

"...an invaluable companion and introduction to the primary literature of the field." (Greig, Buchanan, Williams *Crystallography Reviews*,)

"useful addition to the library of individuals with interests in the glycobiology field, as well as students wishing to learn more about this area." (Todd L. Lowary *Journal of the American Chemical Society*, 130, 30, 10031 - 10034)

"...the book provides an excellent and authoritative reference resource for beginning and established researchers interested in structural and mechanistic aspects of carbohydrate (biochemistry)" (Frank Schweizer, University of Manitoba *Angewandte Chemie*, 2008, 47, 5696 - 5697)

From the Back Cover

Carbohydrates play important roles in biological systems as energy sources, as structural materials, and as informational structures (when they are often attached to proteins or lipids). Their chemical reactivity and conformational behaviour is governed by mechanistic and stereochemical rules.

About the Author

Michael Sinnott received his first degree in Chemistry from University of Oxford in 1966 and a PhD in Organic Chemistry from Bristol in 1968. After a postdoctoral at Stanford in Bioorganic Chemistry, he returned to Bristol and progressed up the academic ranks until he left, as Reader in Bioorganic Chemistry, in 1987 to become Professor of Chemistry at the University of Illinois at Chicago. He returned to the United Kingdom in 1996 for family reasons becoming Professor of Paper Science at UMIST. Progression of longstanding orthopaedic problems facilitated his retirement from UMIST, but he continues his scholarly and research supervision activities at University of Huddersfield. He has published 120 research papers, two books, and edited and contributed to the four-volume set "Comprehensive Biological Catalysis."

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