The book is highly specialized and should be useful to the research worker, but it is not suitable for a text in a course. A research scientist with an interest in one of the topics covered in the articles may wish to purchase this volume; however, the book is probably more appropriate for a library collection. In this volume, there appears to be a good balance between the articles, and overlaps in the various articles are minimal. For a book of only 283 pages, the price seems excessive.

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Advances in Carbohydrate Chemistry and Biochemistry: Volume 36, edited by R. STUART TIPSON AND DEREK HORTON, Academic Press, New York and London, 1979, xii + 332 pages + Author Index + Subject Index, $33.00.

We have come to take the excellence of this Series for granted, and generally speaking, this is another fine volume. It commences with highly interesting obituaries of two important, but perhaps not well-known, researchers in the field, namely, John A. Mills and Joseph V. Karabinos. The Chapter by Keglević on "Glycosiduronic Acids" is superb. The contribution by Ikehara, Ohtsuka, and Markham on "The Synthesis of Polynucleotides" ranks as the most concise, and well-written, current review on the subject (I am grateful to Dr. Paul F. Torrence for giving me his educated opinion on this Chapter). The article by Wilkie on "The Hemicelluloses of Grasses and Cereals" is thorough and long overdue; and the "Bibliography of Crystal Structures of Polysaccharides (1976)" continues the cataloging of this very useful information. In the opinion of this reviewer, the Chapter on "Nutritive Sweeteners Made from Starch", although adequately written, does not really belong here, as it is an account of industrial processes using methods whose scientific nature was established long ago, but, although this is not a report on an "advance" in pure carbohydrate chemistry, it is interesting, and useful to industrial chemists. The Chapter on "Exocellular, Microbial Polysaccharides" should have had "of Commercial Interest" added to its title, as it is quite limited and not a general review; also, large parts of this topic appeared in 1977 in the *ACS Symposium Series*, 45. All in all, however, this volume is extremely worth while for scientist and student alike, and anyone having an interest, however remote, in carbohydrate chemistry cannot afford to bypass this book.

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