



Plant Carbohydrates I

By F. A. Loewus

Springer Dez 2011, 2011. Taschenbuch. Book Condition: Neu. 244x170x50 mm. Neuware - The essential features of constitution, configuration, and conformation in carbohydrate chemistry, so well established in the first half of this century, had yet to be exploited by those concerned with biochemical and physiological processes in plants when the original Encyclopedia appeared. Two outstanding developments, discovery of sugar nucleotides and the advent of chromatography, brought together the insight and a means of probing complexities inherent in plant carbohydrates. These advances, combined with a modern knowledge of enzymes and cellular metabolism, have provided new horizons of investigation for the student of plant physiology. This volume and its companion (Vol. 13B) present a comprehensive assessment of the current viewpoint in plant carbohydrates with emphasis on those aspects which impinge on physiological processes of growth and development. To accommodate the extensive amount of information to be presented, subject matter has been divided, somewhat arbitrarily, into intracellular and extracellular carbohydrates, with the latter defined as carbohydrates occurring in space outside the plasma membrane (plasmalemma). This classification is not exclusive; rather it is intended to lend a degree of flexibility to the way in which subject matter is arranged between...

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