## **Ref. 547.1 CAR**

## CONTENTS

1 Old Roots – New Branches	
Evolution of the Structural Representation of Sucrose	1
2 Applications of the Chemistry of Sucrose	33
3 New Developments in the Use of Sucrose as an Industrial Bulk Chemical	57
4 Reactive Sucrose Derivatives	95
5 Convenient Synthesis and Application of Sucrose Sulfates	117
6 Sucrose-Based Hydrophilic Building Blocks as Intermediates for the Synthesis of Skurfactants	
and Polymers	127
7 Enzymatic Sucrose Modification and Saccharide Synthesis	155
8 Polyfructose: a New Microbial Polysaccharide	169
9 Leucrose, a Ketodisaccharide of Industrial Design	183
10 Prospects for Industrial Utilization of Sugar Beet Carbohydrates	197
11 Practical Routes from Mono-and Disaccharides to Building Blocks with Industrial Application	
Profiles	207
12 Hydrogen Fluoride, Solvent and Reagent for Carbohydrate Conversion Technology	247
13 Selective Oxidation of D-Glucose: Chiral Intermediates for Industrial Utilization	267
14 Studies on Selective Carbohydrate Oxidation	289
15 On the Preparation of Polyvinylsugars	311
16 From Carbohydrates to Pigments: An Exercise in molecular Material Science and Material	
Transformation	323
Subject Index	353