SUBJECT INDEX

- Alginate, assay-dependent specificity of a monoclonal antibody with, 221
- Amine-catalyzed transformation of enolic nonenzymic browning products, isomaltol glycopyranosides into 1,6-anhydro-β-D-hexopyranoses, 61
- 2-Aminoethylphosphonic ester in D-galactan of Megalobulimus paranaguensis, 175
- Aminonitrile synthesis, new products from D-glucose, D-galactose, and D-mannose in the, 117
- Amino sugar in carbohydrate analysis, behaviour of TRIS like an, 229
- Amylase hydrolysis of substrates containing 6deoxy-D-glucose and 6-deoxy-6-fluoro-Dglucose and the specificity of subsite binding, porcine-pancreatic alpha, 107
- Pk-Antigenic determinant, chemical synthesis of the human, 143
- Antigenic polysaccharide of *Eubacierium sabur*reum, strain T17, 185
- 6-C-β-D-Arabinopyranosylquercetin, synthesis of, 246
- Arabinoxylans, effects of delignification and of N-methylmorpholine N-oxide treatments on properties of wheat-bran, 271
- Assay-dependent specificity of a monoclonal antibody with alginate, 221
- Azo dye-α-cyclodextrin complexes, kinetic studies of, 43
- Biophysics, molecular, of the extracellular matrix (book review), c1
- Browning products, isomaltol glycopyranosides into 1,6-anhydro-β-D-hexopyranoses, aminecatalyzed transformation of enolic nonenzymic, 61
- Capsular polysaccharide, structural and conformational features of the *Escherichia coli* K92, 191
- Carbohydrate analysis, behaviour of TRIS like an amino sugar during, 229
- Carbohydrate-peptide linkage, O-type, 2D, J-resolved and SECSY ¹H-n.m.r. spectroscopy, 233
- Catalysts, isomerization and hydrolysis reactions of important disaccharides over inorganic heterogeneous catalysts, 97
- Chemical synthesis of the human Pk-antigenic determinant, 143

Chitin, and related enzymes (book review), c3

isomerization step in, 43

- Chitosan, and related enzymes (book review), c3 Complexes of azo dyes with α -cyclodextrin,
- α-Cyclodextrin-azo dye complexes, kinetic studies of, 43
- Cyclodextrins, solubilities in water: variation with temperature and thermodynamic parameters, 51
- Delignification and of N-methylmorpholine Noxide treatments on properties of wheat-bran arabinoxylans, effects of, 271
- 4-Deoxy-(1→6)-L-ribo-hexopyranan, 275
- 1-Deoxy-1-methylamino-D-lyxo-hexulose, reaction of phenyl isothiocyanate with, 256
- Depolymerization, reductive, determination of polysaccharide linkage and branching by, 1
- Dichroside D, a fatty acid glycoside, from *Ipomoea dichroa*, structure of, 207
- Disaccharides over inorganic heterogeneous catalysts, isomerization and hydrolysis reactions of, 97
- Effects of delignification and of N-methylmorpholine N-oxide treatments on properties of wheat-bran arabinoxylans, 271
- Efficient synthesis of methyl β-D-fucofuranoside and D-fucofuranose derivatives, 249
- Enzymes, polysaccharide-degrading, from Flavobacterium heparinum, 294
- Enzymes, related to chitin and chitosan (book review), c3
- Enzymic synthesis of D-threo-2-pentulose (D-xylulose) 5-phosphate, 288
- Escherichia coli K92 capsular polysaccharide, structural and conformational features of the, 191
- Eubacterium saburreum, strain T17, antigen polysaccharide of, 185
- Flavobacterium heparinum enzymes, isoelectric points of, 294
- β-D-Fucofuranoside and D-fucofuranose derivatives, efficient synthesis of methyl, 249
- D-Galactan of snail, *Megalobulimus paranaguensis*, 2-aminoethylphosphonic ester in, 175

C8 SUBJECT INDEX

- 6-C-\(\beta\)-D-Galactopyranosylquercetin, synthesis of, 246
- α-D-GalpNAc-(1→3)-L-Ser linkage, 2D, J-resolved and SECSY ¹H-n.m.r. spectroscopy of, 233
- Glucopyranosyl- α -D-glucopyranoside, 8-meth-oxycarbonyloctyl, 2-O- α -D-, 266
- D-Glucose, wet oxidation of radiolabeled, 256
- Glycoside, of a fatty acid, from *Ipomoea dichroa*, structure of, 207
- Glycosyl azides and other azido sugars, a ¹³Cn.m.r. investigation of, 21
- D-glycero-D-galacto-Heptose, structure of antigenic polysaccharide containing, 185
- Hexopyranan, 4-deoxy-(1→6)-L-ribo-, 275
- Isoelectric points of Flavobacterium heparinum enzymes, 294
- Isomaltol glycopyranosides into 1,6-anhydro-β-Dhexopyranoses, amine-catalyzed transformation of enolic nonenzymic browning products.
- Isomerization and hydrolysis reactions of important disaccharides over inorganic heterogeneous catalysts, 97
- C-(2,3-O-Isopropylideneglycofuranosyl) derivatives, further correlations between configuration-conformation and ¹H-n.m.r. data for, 161
- Ligatin receptor, putative, synthesis of, 77
- Limitations of the aminonitrile synthesis: new products from D-glucose, D-galactose, and D-mannose, 117
- α -D-Mannopyranoside 6-(α -D-galactopyranosyl phosphate), p-nitrophenyl, synthesis of, 77
- α -D-Mannopyranoside 6-(α -D-glucopyranosyl phosphate), *p*-nitrophenyl, synthesis of, 77
- Matrix, extracellular, molecular biophysics of the (book review), c1
- 8-Methoxycarbonyloctyl 2-*O*-α-D-glucopyranosylα-D-glucopyranoside, 266
- Methyl (β-D-glucopyranosid)uronates, acetylated, of N-aryl-N-hydroxyacetamides, synthesis of, by the orthoester glycosylation method. 282
- N-Methylmorpholine N-oxide treatments on properties of wheat-bran arabinoxylans, effects of delignification and of, 271
- Molecular biophysics, of the extracellular matrix (book review), c1
- Monoclonal antibody with alginate, assay-dependent specificity of a, 221
- New products formed from D-glucose, D-galactose, and D-mannose during the aminonitrile synthesis, 117

N.m.r. characterization of intermediates in the Ltype pentose phosphate cycle, synthesis and, 69

- ¹³C-N.m.r. investigation of glycosyl azides and other azido sugars, 21
- ¹³C-N m.r.-spectral analysis of sulfated and desulfated polysaccharide of the agar type, 240
- D-ribo-C-Nucleoside analogues, synthesis of, by dehydration of new D-allo-pentitol-1-yl heterocycles, 129
- Oxidation of radiolabeled D-glucose, wet, 256
- D-allo-Pentitol-1-yl heterocycles, synthesis of Dribo-C-nucleoside analogues by dehydration of new, 129
- Pentose phosphate cycle, synthesis and n.m.r. characterization of intermediates in the L-type, 69
- D-threo-2-Pentulose 5-phosphate, enzymic synthesis of, 288
- Peptide-carbohydrate linkage, O-type, 2D, J-resolved and SECSY ¹H-n.m.r. spectroscopy of, 233
- Phenyl isothiocyanate, reaction of 1-deoxy-1-methylamino-p-lyxo-hexulose with, 256
- Polysaccharides, of the agar type, ¹³C-n.m.r.spectral analysis of sulfated and desulfated, 240
- Polysaccharide structure, determination by reductive depolymerization of, 1
- Porcine-pancreatic alpha amylase hydrolysis of substrates containing 6-deoxy-D-glucose and 6deoxy-6-fluoro-D-glucose and the specificity of subsite binding, 197
- Pyrazofurins, synthesis of, and further correlations between configuration-conformation and ¹H-n.m.r. data for *C*-(2,3-*O*-isopropylideneglycofuranosyl) derivatives, 161
- Pyrazole, synthesis of *N*-glycosyl derivatives of, using 3,4.6-tri-*O*-acetyl-2-deoxy-2-nitroso-α-D-glucopyranosyl chloride, 151
- Quercetin. 6-*C*-β-D-galactopyranosyl-, 6-*C*-β-D-xylopyranosyl, and 6-*C*-β-D-arabinopyranosyl, synthesis of 246
- Reaction of 1-deoxy-1-methylamino-D-lyxohexulose with phenyl isothiocyanate, 260
- Reductive depolymerization, determination of polysaccharide linkage and branching by, 1
- Snail Megalobulimus paranaguensis, 2-aminoethylphosphonic ester in D-galactan of, 175
- Stereochemical influences on the one-bond ¹³C
 ¹H coupling constants of glycosyl azides and other azido sugars, 21
- Structural and conformational features of the *Escherichia coli* K92 capsular polysaccharide, 191

SUBJECT INDEX C9

- Structure and properties of the products of reaction between 3,4,6-tri-*O*-acetyl-2-deoxy-2-nitroso-α-p-glucopyranosyl chloride and pyrazole, 151
- Structure of dichroside D, a fatty acid glycoside from *Ipomoea dichroa*, 207
- Subsite binding, porcine-pancreatic alphaamylase hydrolysis of substrates containing 6deoxy-D-glucose and 6-deoxy-6-fluoro-D-glucose and the specificity of, 107
- Synthesis and n.m.r. characterization of intermediates in the L-type pentose phosphate cycle, 69
- Synthesis of acetylated methyl (β-D-glucopyranosid)uronates of N-aryl-N-hydroxyacetamides by the orthoester glycosylation method, 282
- Synthesis of glycosides of α-p-mannopyranose 6-(α-p-glucopyranosyl phosphate). The putative ligatin receptor, 77
- Synthesis of methyl β-D-fucofuranoside and D-fucofuranose derivatives, efficient, 249
- Synthesis of D-ribo-C-nucleoside analogues by dehydration of new D-allo-pentitol-1-yl heterocycles, 129

- Synthesis of pyrazofurins: further correlations between configuration-conformation and ¹Hn.m.r. data for C-(2,3-O-isopropylideneglycofuranosyl) derivatives, 161
- Synthesis of the human Pk-antigenic determinant, chemical, 143
- Synthesis of tunicamycin V, total, 85

Total synthesis of tunicamycin V, 85

- 3,4,6-Tri-O-acetyl-2-deoxy-2-nitroso-α-D-glucopyranosyl chloride and pyrazole, the structure and properties of the products of reaction between, 151
- TRIS[2 amino 2-(hydroxymethyl)propane 1,3 diol] behaves like an amino sugar in carbohydrate analysis, 229
- Tunicamycin V, total synthesis of, 85 Wet oxidation of radiolabeled D-glucose, 256
- 6-C-β-D-Xylopyranosylquercetin, synthesis of, 246
- D-Xylulose 5-phosphate, enzymic synthesis of, 288