SUBJECT INDEX

- Agar or carrageenan structures to red algal polysaccharides, assignment of, 336
- 6-Amino-6-deoxy- and 6-deoxy-D-glucopyranose, a convenient synthesis of, 167
- Amylodextrin, helical complexes, ¹³C-n.m.r. study, 21
- Amylose, new glucuronoglucans obtained by oxidation at position 6 of, 61
- Amylose, ¹³C-n.m.r., 21
- Amylostatin (XG), synthesis of, 325
- Anhydropyranoses, steric requirement of a methyl group in simple models of, 144
- Anion-independent conformational ordering in iota-carrageenan: disorder-order equilibria and dynamics, 251
- Anomeric methyl glycosides, differentiation of some underivatised, by f.a.b. and m.i.k.e., 131
- Antitumour polysaccharide from *P. ostreatus*, isolation and structure, 93
- Assignment of agar or carrageenan structures to red algal polysaccharides, 336
- 4-Azido-4,6-dideoxy-p-galactose, synthesis of protected derivatives of, 155
- Benzyl and methyl 3-benzamido-2,3,6-trideoxy-2fluoro-β-L-galactopyranosides (protected C-2 fluoro analogues of daunosamine), synthesis of, 51
- 6-O-Bromoacetyl-β-D-galactopyranose, 1,2,3,4tetra-O-acetyl-, synthesis of, 313
- Carbohydrates with lithium methylsulphinyl carbanion, methylation of, 319
- Carrageenan or agar structures to red algal polysaccharides, assignment of, 336
- Catalytic transfer hydrogenation of 1,3-dioxolanes, c7
- Cells, immobilized (book review), c13
- Cellulose, crystalline, synergism between enzymes of Sclerotium rolfsii in the solubilization of, 111
- Chloride-attachment reactions, mass spectrometry of oligosaccharides by, 121
- Convenient synthesis of 6-amino-6-deoxy- and 6-deoxy-D-glucopyranose, 167
- Complexes of Sn(IV), Sb(V), and Te(VI) hydroxyanions with sugars, 151
- Cyclohexylidenation and isopropylidenation of aldose diethyl dithioacetals, kinetic, 215

- Daunosamine, (S)-2-fluoro-L- and (S)-2-fluoro-Dristosamine, synthesis of, 201
- Daunosamine, synthesis of benzyl and methyl 3benzamido-2,3,6-trideoxy-2-fluoro-β-L-galactopyranosides as protected C-2 fluoro analogues of, 51
- L-Decilonitrose (2,3,6-trideoxy-3-C-methyl-3nitro-L-ribo-hexose), synthesis of a derivative of, 163
- L-galacto-D-galacto-Decitol, a synthesis of, and related studies, C9
- Differentiation of some underivatised anomeric methyl glycosides by f.a.b. and m.i.k.e. mass spectrometry, 131
- 1,3-Dioxolanes, catalytic transfer hydrogenation of, c7
- Disorder-to-order transition of iota-carrageenan, study of the equilibria and dynamics of the, 251
- Dithioacetals, kinetic cyclohexylidenation and isopropylidenation of aldose diethyl, 215
- Enzymes of Sclerotium rolfsii in the solubilization of crystalline cellulose, synergism between, 111
- Enzymic preparation and chromatography of octulose phosphates, improved methods for the, 69
- F.a.b. mass spectrometry, analysis of polysaccharide-lipid interaction by, 139
- (S)-2-Fluoro-L-daunosamine and (S)-2-fluoro-D-ristosamine, synthesis of, 201
- 3-Fluoro-β-D-galactopyranoside end-residue, 3deoxy-, synthesis of D-galacto-biose, -triose, and -tetraose methyl glycosides having a, 289
- 3-Fluoro-D-galactopyranosyl group, 3-deoxy-, synthesis of (1→6)-β-D-galacto-biose and -triose having a, 277
- D-Fucose, 4-azido-4-deoxy-, synthesis of protected derivatives of, 155
- (1→6)-β-D-Galactobiose having a 3-deoxy-3fluoro-D-galactopyranosyl group, synthesis of, 277
- D-Galacto-biose, -triose, and -tetraose, -(1→6)-linked methyl glycosides having a 3-deoxy-3-fluoro-β-D-galactopyranoside end-residue, synthesis of, 289
- β-D-Galactopyranose, 1,2,3,4-tetra-O-acetyl-6-O-bromoacetyl-, synthesis, 313

C20 SUBJECT INDEX

- β-D-Galactopyranoside end-residue, 3-deoxy-3fluoro, synthesis of D-galacto-biose, -triose, and -tetraose methyl glycosides having a, 289
- 4-O-β-D-Galactopyranosyl-3-O-methyl-D-glucose: a new synthesis and application to the evaluation of intestinal lactase, 81
- D-Galactose, 4-azido-4,6-dideoxy-, synthesis of protected derivatives of, 155
- Gel, hydrophobic, chromatography of glycosaminoglycans on, 239
- β-Glucan from *P. ostreatus*, isolation, structure, and antitumor activity, 93
- D-Glucose, ionisation and solvation of, 169
- Glucosyltransferases of *Streptococcus mutans* 6715, inhibitions by sucrose analogs modified at positions 6 and 6′, 9
- Glycosaminoglycan, a previously unreported mammalian sulphated, c4
- Glycosaminoglycans, chromatography on hydrophobic gel, 239
- Higher-carbon sugars: a synthesis of L-galacto-D-galacto-decitol and related studies, c9
- H.p.l.c. on copper silicate gel, separation of sugars by, 135
- Hydrogenation of 1,3-dioxolanes, catalytic transfer, c7
- Hydrolysis of β-D-xylo-oligosacchandes by β-D-xylosidase from *Bacillus pumilus*, 342
- Hydrophobic gel, chromatography of glycosaminoglycans on, 239
- Hydroxyanions of Sn(IV), Sb(V), and Te(VI), sugar complexes, 151
- Immobilized cells and organelles (book review), C13
- Improved methods for the enzymic preparation and chromatography of octulose phosphates, 69 Inositol, synthesis of (±)-1,2,4-tri-O-benzyl-myo,
- Ionisation and solvation of D-glucose, 169
- Iota-carrageenan, study of the equilibria and dynamics of the disorder-to-order transition of, 251
- I-Isolectins from *Griffonia simplicifolia*, synthesis of 2-substituted methyl α -D-galactopyranosides and their binding affinity for the A and B subunits of the, 37
- Isopropylidenation of aldose diethyl dithioacetals, kinetic cyclohexylidenation and, 215
- KDO, determination of, by ion-exchange l.c., 1 Kinetic cyclohexylidenation and isopropylidenation of aldose diethyl dithioacetals, 215 Klebsiella K14 polysaccharide, structure, 263
- Lithium methylsulphinyl carbanion, methylation of carbohydrates with, 319

Mammalian sulphated glycosaminoglycan, a previously unreported, C4

- Mass spectrometry, differentiation of some underivatised anomeric methyl glycosides by f.a.b. and m.i.k.e., 131
- Mass spectrometry of oligosaccharides by chloride attachment reactions, the origin of fragment loss in, 121
- 3-O-Methyl-lactose, a new synthesis of, and application to the evaluation of intestinal lactase, 81
- Methylation of carbohydrates with lithium methylsulphinyl carbanion, 319
- Methyl O-(3-deoxy-3-fluoro- β -D-galactopyranosyl)-(1 \rightarrow 6)-O- β -D-galactopyranosyl-(1 \rightarrow 6)-3-deoxy-3-fluoro- β -D-galactopyranoside and related n.m.r. studies. 299
- Methyl group in simple models of anhydropyranoses, steric requirements of a, 144
- Neuraminic acid, N-acetyl-, determination of, by ion-exchange, 1
- New glucuronoglucans obtained by oxidation of amylose at position 6, 61
- N.m.r. studies, synthesis of methyl O-(3-deoxy-3-fluoro- β -D-galactopyranosyl)-(1 \rightarrow 6)-O- β -D-galactopyranosyl-(1 \rightarrow 6)-3-deoxy-3-fluoro- β -D-galactopyranoside and related, 299
- Octulose phosphates, improved methods for the enzymic preparation and chromatography of, 69
- D-manno-Octulosonic acid, 3-deoxy (KDO), determination of, by ion-exchange l.c., 1
- Oligosaccharides, mass spectrometry of, by chloride-attachment reactions, 121
- Organelles, immobilized (book review), c13
- Oxidation of amylose at position 6, new glucuronoglucans obtained by, 61
- Polysaccharide from *P. ostreatus*, isolation, structure, and antitumor activity, 93
- Polysaccharide from *Streptococcus pneumoniae* type 5, structure studies of the capsular, 111
- Polysaccharide-lipid interaction by f.a.b. mass spectrometry, 139
- Polysaccharide of Klebsiella K14, structure, 263
- 5-(β-D-Ribofuranosyl)-1,2,3,4-tetrahydrophthalazine-1,4-diones, synthesis of, 332
- Sclerotium rolfsu, synergism between enzymes of, in the solubilization of crystalline cellulose, 111
 Separation of sugars by h.p.l.c. on copper silicate
- Separation of sugars by h.p.l.c. on copper silicate gel, 135
- Solvation of p-glucose, ionisation and, 169 Stereoselective conversion of valienamine and validamine into valiolamine, 185

SUBJECT INDEX C21

Steric requirement of a methyl group in simple models of anhydropyranoses, 144

- Streptococcus mutans 6715, inhibition of glucosyltransferases of, by sucrose analogs modified at positions 6 and 6', 9
- Streptococcus pneumoniae type 5, structural studies of the capsular polysaccharide from, 111
- Structural studies of the capsular polysaccharide from *Streptococcus pneumoniae* type 5, 101
- 2-Substituted methyl α-D-galactopyranosides: synthesis and binding affinity for the A and B subunits of the *Griffonia simplicifolia* I isolectins, 37
- Sucrose analogs modified at positions 6 and 6', inhibition of *Streptococcus mutans* 6715 glucosyltransferases by, 9
- Sugar complexes of Sn(IV), Sb(V), and Te(VI) hydroxyanions, 151
- Sugars, separation of, by h.p.l.c. on copper silicate gel, 135
- Sulphated glycosaminoglycan, a previously unreported mammalian, C4
- Synthesis of a derivative of L-decilonitrose (2,3,6-trideoxy-3-C-methyl-3-nitro-L-ribo-hexose),163
- Synthesis of 6-amino-6-deoxy- and 6-deoxy-D-glucopyranose, a convenient, 167
- Synthesis of amylostatin (XG), 325
- Synthesis of benzyl and methyl 3-benzamido-2,3,6-trideoxy-2-fluoro-β-L-galactopyranosides: protected C-2 fluoro analogues of daunosamine, 51
- Synthesis of L-galacto-D-galacto-decitol and related studies, C9
- Synthesis of (S)-2-fluoro-L-daunosamine and (S)-2-fluoro-D-ristosamine, 201

- Synthesis of 4-O-β-D-galactopyranosyl-3-O-methyl-D-glucose, a new, and application to the evaluation of intestinal lactase, 81
- Synthesis of methyl O-(3-deoxy-3-fluoro-β-D-galactopyranosyl)-(1→6)-O-β-D-galactopyranosyl-(1→6)-3-deoxy-3-fluoro-β-D-galactopyranoside and related n.m.r. studies, 299
- Synthesis of 5-(β-D-ribofuranosyl)-1,2,3,4-tetrahydrophthalazine-1,4-diones, 332
- Synthesis of 2-substituted methyl α-D-galactopyranosides and their binding affinity for the A and B subunits of the *Griffonia simplicifolia* I isolectins, 37
- Synthesis of (\pm) -1,2,4-tri-O-benzyl-myo-inositol, C1
- 1,2,3,4-Tetra-O-acetyl-6-O-bromoacetyl-β-D-galactopyranose, synthesis of, 313
- Tetrahydrophthalazine-1,4-diones, synthesis of 5-(β-D-ribofuranosyl)-1,2,3,4-, 332
- (\pm)-1,2,4-Tri-*O*-benzyl-*myo*-inositol, synthesis of, C1
- 2,3,6-Trideoxy-3-C-methyl-3-nitro-L-ribo-hexose (L-decilonitrose), synthesis of a derivative of, 163
- Valienamine and validamine into valiolamine, stereoselective conversion of 185
- Valiolamine, stereoselective conversion of valienamine and validamine into, 185
- β -D-Xylo-oligosaccharides, hydrolysis of, by β -D-xylosidase from *Bacillus pumilus*, 342
- β -D-Xylosidase from *Bacillus pumilus*, hydrolysis of β -D-xylo-oligosaccharides by, 342