SUBJECT INDEX

- Acacia xanthophloea gum and its degradation products, carbon-13 n.m.r.-spectral study of, 229.
- Acetobacter methanolicus MB 58/4, structure of the capsular polysaccharide and the O-sidechain of the lipopolysaccharide from, 165
- Aldonolactones, pyranoid and furanoid, reaction with chloromethyltrimethylsilane-derived reagents, 79
- Allyl cthers: a new approach to α-branched dicarbonyl sugars, Claisen rearrangement of hexenopyranoside, 63
- Allylsilanes, a one-step C-linked disaccharide synthesis from carbohydrate, and tri-O-acetyl-D-glucal, 101
- Assignment of ¹³C-n.m.r. signals for reduced isomaltooligosaccharides, 243
- Benzoylated hexa-2,4-dien-4-olides from aldono-1,4-lactones: stereoselective synthesis of dideoxyaldonolactone derivatives, 145
- α-Branched dicarbonyl sugars, Claisen rearrangement of hexenopyranoside allyl ethers: a new approach to, 63
- Capsular polysaccharide and the O-side-chain of the lipopolysaccharide from Acetobacter methanolicus MB 58/4, structure of the, 165
- Capsular polysaccharide, from Actinobacillus pleuropneumoniae serotype 10, structure of, 185
- Carbohydrates derivatized with 1,3,2-dioxaphospholanyl chloride, ³¹P-n.m.r. spectroscopy of, in relation to wood chemistry, 49
- Carbon-13 n.m.r.-spectral study of Acacia xanthophloea gum and its degradation products, 229
- Celluloses, O-methyl- and O-ethyl- having controlled distribution of substituents, preparation, 173
- ¹H Chemical shifts of glycogen, assignment, 1
- Chloromethyltrimethylsilane-derived reagents, reaction with pyranoid and furanoid aldono-lactones 79
- Claisen rearrangement of hexenopyranoside allyl ethers: a new approach to α-branched dicarbonyl sugars, 63
- Conformations of (1 → 4)-linked α-b-galacturonodi- and -tri-saccharides in solution analysed by n.m.r. measurements and theoretical calculations, 23
- Crystal structure of the inclusion complex of cyclomaltoheptaose (β-cyclodextrin) with 3,3-dimethylbutylamine, 11

- Cylcloamyloses on Hakomori methylation, reactivities at the O-2, O-3, and O-6 positions of, 209
- Cyclomaltoheptaose (β-cyclodextrin), crystal structure of the inclusion complex with 3,3-dimethylbutylamine, 11
- Degradation products, carbon-13 n.m.r.-spectral study of *Acacia xanthoploea* gum and its, 229
- Di- and tri-saccharides, conformations in solution of $(1\rightarrow 4)$ -linked α -D-galacturono-, analysed by n.m.r. measurements and theoretical calculations, 23
- Dideoxyaldonolactone derivatives, benzoylated hexa-2,4-dien-4-olides from aldono-1,4-lactones: stereoselective synthesis of, 145
- D-Erythroascorbic acid, synthesis from D-glucose,
- O-Ethyl- and O-methyl-celluloses having controlled distribution of substituents, preparation, 173
- α-D-Galactopyranosyl-linked oligosaccharides having an anomeric 4-nitrophenyl group, synthesis of, C1
- α-D-Galacturono-di- and -tri-saccharides, conformations in solution of (1→4)-linked, analysed by n.m.r. measurements and theoretical calculations, 23
- Ganglioside GM1b and some positional analogs, regio- and stereo-selective synthesis, 127
- D-Glucal, tri-O-acetyl-, a one-step C-linked disaccharide synthesis from carbohydrate allylsilanes and, 101
- D-Glucosamine derivatives (lipid A subunit analogs) carrying the C-branched 2-tetradecylhex-adecanoyl group, synthesis, 155
- D-Glucose, synthesis of D-erythroascorbic acid from, 117
- Glycogen, assignment of the ¹H chemical shifts, 1
- Inclusion complex of cyclomaltoheptaose (β -cyclodextrin) with 3,3-dimethylbutylamine, the crystal structure of the, 11
- Isomaltooligosaccharides, assignment of ¹³C-n.m.r. signals for reduced, 243
- C-Linked disaccharide synthesis from carbohydrate allylsilanes and tri-O-acetyl-D-glucal, a one-step, 101
- Lipid A subunit analogs carrying the C-branched 2-tetradecylhexadecanoyl group, synthesis, 155

- Lipids, structure and bioconversion of trehalose,
- Lipopolysaccharide core oligosaccharides from Rhizobium leguminosarum biovar phaseoli CE3 and two of its symbiotic mutants CE109 and CE309, re-examination of the structures of the, 219
- Methylation, reactivities of the O-2, O-3, and O-6 positions of cycloamyloses on Hakomori, 209
- O-Methyl- and O-ethyl-celluloses having controlled distribution of substituents, preparation, 173
- Methyl 4,6-O-benzylidene-2,3-dideoxy-2-C-p-tolylsulfonyl-D-erythro-hex-2-enopyranoside and its phenyl analogue with several nucleophiles; stereoselective preparation of 3-O-acyl-D-arabino- and -D-ribo-hex-1-enitol derivatives, reactions of, 195
- 4-Nitrophenyl anomeric group, synthesis of α-D-galactopyranosyl-linked oligosaccharides having a, Cl
- ¹³C-N.m.r. signals for reduced isomaltooligosaccharides, assignment of, 243
- ³¹P-N.m.r. spectroscopy in wood chemistry: carbohydrates derivatized with 1,3,2-dioxaphospholanyl chloride, 49
- N.m.r. study of the conformations of xanthan in aqueous solution, 33
- Oligosaccharides from *Rhizobium leguminosarum* biovar phaseoli CE3 and two of its symbiotic mutants CE109 and CE309, re-examination of the structures of the lipopolysaccharide core, 219
- Oligosaccharides, α-D-galactopyranosyl-linked, having an anomeric 4-nitrophenyl group, synthesis of, C1
- D-glycero-Pentos-2-ulose, 3-deoxy, the reaction of, with aminoguanidine, c5
- Phosphites from carbohydrates and 1,3,2-dioxaphospholanyl chloride, ³¹P-n.m.r. spectroscopy of, 49
- 4-O-Phosphono-D-glucosamine derivatives (lipid A subunit analogs) carrying the C-branched 2-tetradecylhexadecanoyl group, synthesis of a novel series of, 155

- Physico-chemical properties of aqueous solutions of xanthan: an n.m.r. study, 33
- Polysaccharide, capsular, from Actinobacillus pleuropneumoniae serotype 10, structure of, 185
- Reaction of pyranoid and furanoid aldonolactones with chloromethyltrimethylsilane-derived reagents, 79
- Reactions of methyl 4,6-O-benzylidene-2,3-dideoxy-2-C-p-tolylsulfonyl-D-erythro-hex-2-enopyranoside and its phenyl analogue with several nucleophiles; stereoselective preparation of 3-O-acyl-D-arabino- and -D-ribo-hex-1-enitol derivatives, 195
- Reactivities at the O-2, O-3, and O-6 positions of cycloamyloses on Hakomori methylation, 209
- Re-examination of the structures of the lipopolysaccharide core oligosaccharides from *Rhizobium leguminosarum* biovar phaseoli CE3 and two of its symbiotic mutants CE109 and CE309, 219
- Stereoselective preparation of 3-O-acyl-D-arabino- and -D-ribo-hex-1-enitol derivatives, reactions of methyl 4,6-O-benzylidene-2,3-dideoxy-2-C-p-tolysulfonyl-D-erythro-hex-2-enopyranoside and its phenyl analogue with several nucleophiles, 195
- Stereoselective synthesis of dideoxyaldonolactone derivatives, benzoylated hexa-2,4-dien-4-olides form aldono-1,4-lactones, 145
- Structure and bioconversion of trehalose lipids, 93
- Structure of the capsular polysaccharide and the O-side-chain of the lipopolysaccharide from *Acetobacter methanolicus* MB 58/4, 165
- Sulfates, carbohydrate, by displacement of trifluoromethanesulfonates, on the preparation of, 215
- Trehalose lipids, structure and bioconversion, 93 Trifluoromethanesulfonates, on the preparation of carbohydrate sulfates by displacement of, 215
- Xanthan, an n.m.r. study of the conformations in aqueous solution, 33