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Substrate and Cross-Linking; 3.2.2 Microporous Resins; 3.2.3 Macroporous Resins; 3.2.4 Chemical Functionalization; 3.2.5 Resin Capacity; 3.3 Anion Exchangers; 3.3.1 Poly(styrene-divinylbenzene) Backbone (PS-DVB); 3.3.2 Polyacrylate Anion Exchangers; 3.3.3 Effect of Functional Group Structure on Selectivity; 3.3.4 Effect of Spacer Arm Length; 3.3.5 Quaternary Phosphonium Resins; 3.3.6 Latex Agglomerated Ion Exchangers; 3.3.7 Effect of Latex Functional Group on Selectivity; 3.3.8 Silica-Based Anion Exchangers
3.3.9 Alumina Materials
3.4 Cation Exchangers; 3.4.1 Polymeric Resins; 3.4.1.1 Sulfonated Resins; 3.4.1.2 Weak-Acid Cation Exchangers; 3.4.2 Pellicular Resins; 3.4.3 Silica-Based Cation Exchangers; 3.5 Chelating Ion-Exchange Resins; 4 Detectors; 4.1 Introduction; 4.2 Conductivity Detectors; 4.2.1 Conductivity Definitions and Equations; 4.2.2 Principles of Cell Operation; 4.2.3 Conductance Measurement; 4.2.4 Hardware and Detector Operation; 4.3 Ultraviolet-Visible Detectors; 4.3.1 Direct Spectrophotometric Measurement; 4.3.2 Post-Column Derivatization; 4.3.3 Hardware and Detector Operation
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5.3.1 Elution with Perchloric Acid and Sodium Perchlorate

Sommario/riassunto

Reflecting the tremendous development of ion chromatography in recent years, the best-selling book by Fritz and Gjerde has now gone into a third edition. This is essentially a new book, describing materials, principles, and methods of ion chromatography in a clear and concise style. The book can be used both as an introduction for the new comer and as a practical guide for method development and applications for the experienced user. It contains handy tables with useful data, e. g. on detection and elution conditions. With this new edition, the scope has been enlarged to include capillary e
