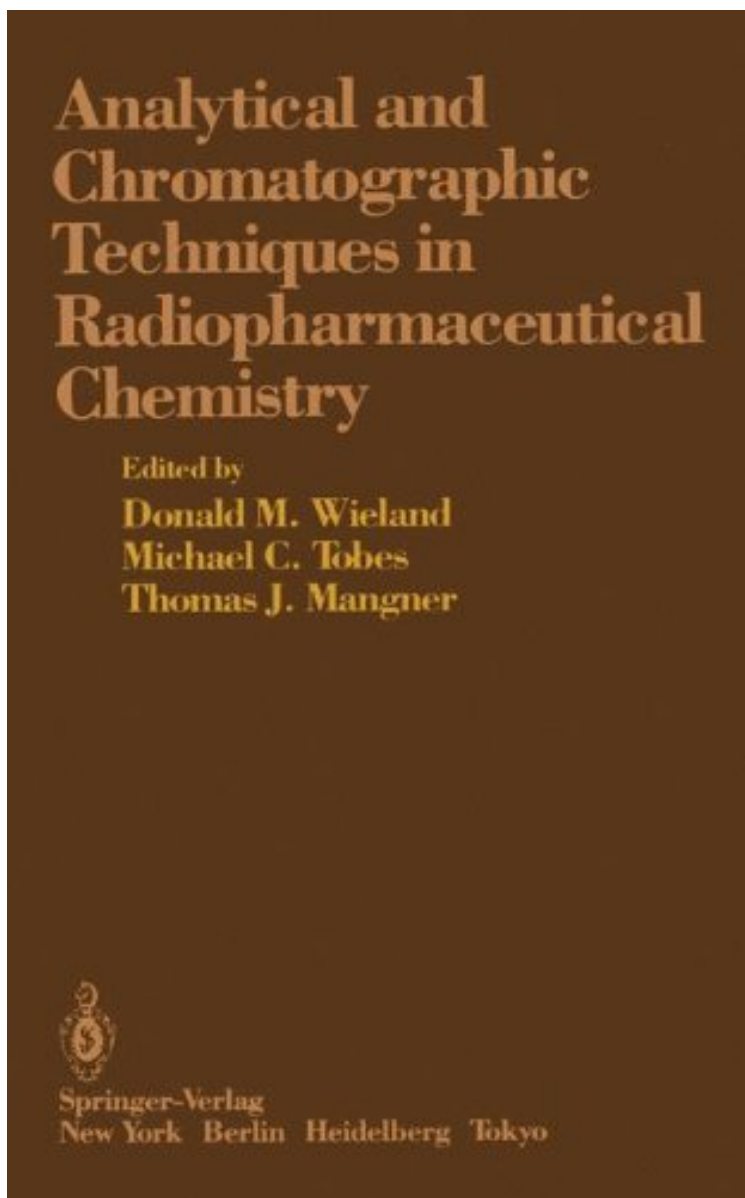


Analytical and Chromatographic Techniques in Radiopharmaceutical Chemistry

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Chromatographic Techniques in Radiopharmaceutical Chemistry:

In 1906, Michael T. Sweet first developed the chromatographic method by using an adsorbant to separate pigments. Since that time, the technological advances in TLC and HPLC have brought about new definitions of purity in parallel with the advances. Radiopharmaceutical chemistry is especially dependent on the chromatographic technique because of the relatively small amount of material in most radiopharmaceuticals—often so small that the usual physical methods of analytical chemistry cannot be used. As a result, this collection of papers represents the key to successful radiopharmaceutical development by setting the standard for the present of radiochemical purity. ent-day definition William C. Eckelman, Ph.D. Diagnostics Associate Director The Squibb Institute for Medical Research New Brunswick, New Jersey Preface The chapters herein are updated and expanded versions of presentations that the authors made at a symposium held on June 4, 1984 in Los Angeles, California under the sponsorship of the Radiopharmaceutical Science Council of the Society of Nuclear Medicine. All manuscripts were refereed. The intent of the symposium organizers was to enlist participants who work on a day-to-day basis with the analytical and chromatographic techniques to be discussed at the symposium. We feel confident that this distillation of hands-on experience will be of value to graduate students as well as experienced researchers in radio pharmaceutical chemistry and related fields which use radiotracer methodology.