BOOK REVIEW

Joseph R. Monforte, 1 Ph.D.

A Review of Electrophoresis, Theory, Techniques, and Biochemical and Clinical Applications

REFERENCE: Andrews, A. T., *Electrophoresis: Theory, Techniques, and Biochemical and Clinical Applications,* 2nd ed., Oxford University Press, 200 Madison Ave., New York, NY 10016, \$49.95, 452 pp.

Only three years since the appearance of the first edition, this text covers very comprehensively the several areas of electrophoresis available to scientists. As mentioned in the preface, electrophoresis is a dynamic field which has shown several significant advances in the last few years. Therefore, this second edition is thoroughly justified.

The format is consistently adhered to, the introduction of a method with brief theoretical discussion followed by experimental procedures and applications. A quick reference guide to methods for particular separations is included inside the front and back covers.

The book begins with a very basic introduction to electrophoresis (Chapter 1, 4 pages) and then commences to describe the several techniques which are available. These include polyacrylamide gel electrophoresis, immunodiffusion and immunoelectrophoresis, isoelectric focusing, isotachophoresis (displacement electrophoresis), and two-dimensional electrophoresis. A single chapter (Chapter 12) is devoted to miscellaneous electrophoresis methods which include microgel electrophoresis, gel electrophoresis in organic solvents, starch gel electrophoresis, paper electrophoresis, thin-layer electrophoresis, and affinity electrophoresis, among other techniques.

The book concludes with an appendix describing methods for the radiolabelling of proteins and nucleic acids.

Overall, this is a comprehensive text covering the many available techniques of electrophoresis.

¹Toxicologist, Wayne County Medical Examiner's Office, 400 E. Lafayette St., Detroit, MI 48226.