

Dynamic Characteristics Of Ion-Selective Electrodes

Ernö Lindner, Klara Tóth, Ernő Pungor

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Ion-Selective Electrodes in Analytical Chemistry Henry Freiser, 1978-11-30 Ion selective electrodes continue to be one of the more exciting developments in electro analytical chemistry in the last 10 years This is evidenced in the large and continually growing literature in the field It is important and necessary in such a rapidly growing area to be able to take stock i e to present a well rounded up to date review of important developments In this volume reviews by many of the leading practitioners and pioneers in this field contribute to what we consider to be a generous coverage of both fundamental aspects of ion selective electrodes and their applications to analytical chemistry Although this volume is not intended to be exhaustive we have attempted to produce a stand alone text dealing with all major current developments Indeed since some of the theoretical approaches are not yet universally agreed on each of the first five chapters deals with theory and principles of the nature and behavior of ion selective electrodes from the vantage point of the authors own experience and understanding In view of the rapid expansion of this field plans for future volumes are now being formulated Henry Freiser Tucson Arizona vii Contents Chapter 1 Theory and Principles of Membrane Electrodes R P Buck 1 Potential Generating Processes 1 1 1 Interfaces Fixed Charges Charged Sites and Charge Carriers 1 1 2 Ion Exchange as a Potential Generating Process 5 1 3 Diffusion and Migration 8 1 4 Electrochemical Potentials Fluxes and Mobility 10 1 5

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