



Ion-Selective Microelectrodes Advances in Experimental Medicine and Biology

By -

Springer. Paperback. Condition: New. 202 pages. Dimensions: 9.5in. x 6.6in. x 0.7in. pH and ion-selective microelectrodes are rapidly finding an increasing number of applications in the study and control of living (and nonliving) systems. They are unique in their capacity to measure chemical species without altering natural or controlled environmental conditions. Furthermore, these potentiometric tools measure the activity of the chemical species in contrast to conventional ones that measure total concentration. The Workshop on Ion-Selective Microelectrodes is designed to provide an insight into the principles, theory, fabrication, techniques, present limitations, goals, and applications of some of these tools. The importance and types of microelectrodes and guidelines for their application in biological systems are discussed by Berman. Their present limitations are reviewed by Durst. He warns that their use in analyzing living matter should be approached with caution because of the ill-defined nature of biologic systems. Techniques are presented next for the fabrication of pH (Hebert), antimony (Green and Giebisch, and Malnic et al.), oxygen (Whalen), then single-barrelled (Wright, Walker and Ladle, Morris and Krnjevic) and double barrelled (Zeuthen et al., and Khuri) potassium and chloride liquid ion-exchanger microelectrodes. Difficulties with and fabrication of reference...



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