Introduction

Two new chapters are currently available and presented as a supplement to the *Manual on Water*. These chapters should be of especial interest and use to those involved with the measurement and treatment of the microbiological and ionic quality of water and water-borne wastes.

Chapter 19 is an overview of Ion Selective Electrodes which emphasizes the practical applications of these relatively new measurement tools to the ionic analyses of water, wastewater, and brines. Although the theoretical bases of these measurements are only described briefly, references are provided for those interested in a deeper look into these aspects.

A brief history of membranes and membrane filters developments is presented in Chapter 20. The significant human health impact of membrane filtration is discussed both as a tool for microbiological analyses and as a process for the preparation of drinking water. The physical, chemical, and solids handling characteristics are detailed for membranes and membrane filters. Other membrane processes are described briefly for the current commercial applications to water purification.

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