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Autore	Grasshoff K
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Nota di contenuto	Methods of Seawater Analysis; Contents; List of contributors; 1 Sampling; 1.1 Introduction; 1.2 Sampling strategy; 1.3 Sampling techniques; 1.3.1 Surface water sampling; 1.3.2 Water samplers for major hydrochemical variables; 1.3.3 Water samplers for trace constituents; 1.3.3.1 Trace elements; 1.3.3.2 Trace organic compounds; 1.3.4 Specific samplers; 1.3.5 Collection of marine particles; 1.3.5.1 Collection of suspended particulate matter (SPM); 1.3.5.2 Collection of sinking particulates; 1.4 Sampling errors; 1.5 Quality control; 1.5.1 Precision; 1.5.2 Accuracy; 1.5.3 Limit of detection References to Chapter 12 Filtration and storage; 2.1 Filtration; 2.1.1 General remarks; 2.1.2 Filters; 2.1.3 Filtration techniques; 2.1.3.1 Vacuum filtration; 2.1.3.2 Pressure filtration; 2.1.3.3 In situ filtration; 2.1.3.4 Centrifugation; 2.2 Storage; 2.2.1 General remarks; 2.2.2 Storage for the determination of major compounds; 2.2.3 Storage for the determination of nutrients; 2.2.3.1 General remarks; 2.2.3.2 Refrigeration; 2.2.3.3 Poisoning; 2.2.4 Storage for the determination of trace elements; References to Chapter 2; 3 Determination of salinity; 3.1 Introduction 3.2 Symbols and abbreviations3.3 Definition of salinity; 3.3.1 Early concepts; 3.3.2 The practical salinity scale of 1978 (PSS78); 3.4 Measurement of the conductivity ratio; 3.5 Salinity from bench salinometers; 3.5.1 Purpose; 3.5.2 Standard seawater; 3.5.3 Sampling; 3.5.4 The Guildline AUTOSAL Model 8400 B; 3.5.5 The Beckman Model RS1O; 3.5.6 Data logging; 3.5.7 Substandards; 3.6 Salinity from in situ measurements: CTD profilers; 3.6.1 Principles; 3.6.2 Operation of CTD-rosette sampler systems; 3.6.3 Calibration; 3.6.4 Data processing; References to Chapter 3; 4 Determination of oxygen 4.1 Introduction4.2 Principle of the determination; 4.3 Error sources and interferences; 4.4 Reagents; 4.5 Instruments; 4.6 Procedure; 4.6.1 Standardization of the thiosulphate solution; 4.6.2 Subsampling and fixation of dissolved oxygen; 4.6.3 Storage; 4.6.4 Titration; 4.6.5 Determination of the reagent blank; 4.6.6 Calculation of the result; 4.6.7 Accuracy and precision; References to Chapter 4; 5 Determination of hydrogen sulphide; 5.1 Introduction; 5.2 Units; 5.3 Analytical methods; 5.3.1 Method by Fonselius; 5.3.1.1 Reagents; 5.3.1.2 Special apparatus; 5.3.1.3 Sampling 5.3.1.4 Preservation of samples5.3.1.5 Procedure; 5.3.1.6 Analysis; 5.3.1.7 Dilution of samples; 5.3.1.8 Standardization of the method; 5.3.1.9 Calibration of the method; 5.3.2 Method by Cline; 5.3.2.1 Reagents; 5.3.2.2 Special apparatus; 5.3.2.3 Sampling; 5.3.2.4 Procedure; 5.3.2.5 Analysis; 5.3.2.6 Standardization and calibration of the method; 5.3.3 Titration methods; 5.3.4 Methods using mercury compounds; References to Chapter 5; 6 Determination of thiosulphate and sulphur; 6.1 Introduction; 6.2 Principle of the determination of thiosulphate; 6.2.1 Apparatus; 6.2.2 Reagents 6.2.3 Sampling and storage
Sommario/riassunto	Since the book first appeared in 1976, Methods of Seawater Analysis has found widespread acceptance as a reliable and detailed source of information. Its second extended and revised edition published in 1983 reflected the rapid pace of instrumental and methodological evolution in the preceding years. The development has lost nothing of its momentum, and many methods and procedures still suffering their teething troubles then have now matured into dependable tools for the analyst. This is especially evident for trace and ultra-trace analyses of

organic and inorganic seawater constituents which