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Nota di contenuto	Front Cover; SEAWATER: ITS COMPOSITION, PROPERTIES AND BEHAVIOUR; Copyright Page; CONTENTS; ABOUT THIS VOLUME; ABOUT THIS SERIES; CHAPTER 1. WATER , AIR AND ICE; 1.1 THE SPECIAL PROPERTIES OF WATER; 1.2 THE HYDROLOGICAL CYCLE; 1.3 SUMMARY OF CHAPTER 1; CHAPTER 2. TEMPERATURE IN THE OCEANS; 2.1 SOLAR RADIATION; 2.2 DISTRIBUTION OF SURFACE TEMPERATURES; 2.3 DISTRIBUTION OF TEMPERATURE WITH DEPTH; 2.4 ENERGY FROM THE THERMOCLINE - A BRIEF DIGRESSION; 2.5 TEMPERATURE DISTRIBUTION AND WATER MOVEMENT; 2.6 SUMMARY OF CHAPTER 2; CHAPTER 3. SALINITY IN THE OCEANS; 3.1 CONSTANCY OF COMPOSITION 3.2 VARIATIONS IN SALINITY 3.3 THE MEASUREMENT OF SALINITY; 3.4 SUMMARY OF CHAPTER 3; CHAPTER 4. DENSITY AND PRESSURE IN THE OCEAN; 4.1 WATER MASSES; 4.2 DEPTH (PRESSURE), DENSITY AND TEMPERATURE; 4.3 T-S DIAGRAMS; 4.4 MIXING PROCESSES IN THE OCEANS; 4.5 SUMMARY OF CHAPTER4; CHAPTER 5. LIGHT AND SOUND IN SEAWATER; 5.1 UNDERWATER LIGHT; 5.2 UNDERWATER SOUND; 5.3 SUMMARY OF CHAPTER 5; CHAPTER 6. THE SEAWATER SOLUTION; 6.1 THE GROSS CHEMICAL COMPOSITION OF SEAWATER; 6.2 SOURCES AND SINKS, OR WHY THE SEA IS SALT; 6.3 CHEMICAL AND BIOLOGICAL

REACTIONS IN SEAWATER; 6.4 SUMMARY OF CHAPTER 6  
CHAPTER 7. SEAWATER AND THE GLOBAL CYCLE 7.1 A SHORT HISTORY OF SEAWATER; 7.2 A LOOK AHEAD; 7.3 SUMMARY OF CHAPTER; APPENDIX: CONVERSIONS BETWEEN pH AND [H<sup>+</sup>]; SUGGESTED AND COMMENTS READING; ANSWERS AND COMMENTS TO QUESTIONS; ACKNOWLEDGEMENTS; INDEX

Sommario/riassunto

'Seawater' has been substantially updated in this second edition to take account of recent developments in marine science. Sections dealing with difficult physical and chemical concepts have been developed on the basis of feedback from the first edition, making this an ideal learning tool for oceanography students. Chapter 1 summarizes the special properties of water and the role of the oceans in the hydraulic cycle. The distribution of temperature and salinity in the oceans and how they influence water density and movements is then discussed.