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> Aquatic Environmental Science 4. pH and Redox potential

- 1. Acidity of Water
 - Definition of pH
 - Equilibrium constant
 - pH in natural waters
 - Calculation of pH
- 2. Dissolved Oxygen
 - Oxygen availability
 - Solubility of oxygen
 - Saturation of dissolved oxygen
- 3. Oxidation and Reduction
 - Definition of oxidation and reduction
 - Oxidant and reductant
 - Redox potential (ORP, E_h)
 - pE-pH diagram
 - Chemical equilibrium model
- 4. Exercise
- 5. Basic Analytical Chemistry (appendix)
 - Units for water quality assessment
 - General procedure for determining solute concentrations