



Department of Civil and Environmental Engineering
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Aquatic Environmental Science 10. Nutrient Cycle

1. Nutrient and Essential Elements
 - Macronutrient, Micronutrient
 2. Importance of Nutrients in Aquatic Systems
 3. Nitrogen Cycle
 - Fixation, Assimilation, Nitrification, Denitrification
 - Nitrogen Transformation Model
 - Nitrogen-related Kinetics
 - Stable Isotope in Biogeochemistry
 4. Phosphorus Cycle
 5. Modeling Biological Transformation
 6. Exercise
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