

24 Apr. 2014

Department of Civil Engineering  
2014 Summer Semester  
Ryo Masahiro (invited lecturer), Yoshimura Chihiro

*Aquatic Environmental Science*

Outline #3: Watershed hydrology

1. Sustainability of Urban Water Environment
  2. General Introduction of Hydrology
    - Historical and social background of hydrology
    - Definition of hydrology and watershed
    - Latest trend in hydrological research
    - Hydrological cycle at global and watershed scales
    - Water balance
    - Stream flow variability and human impacts
  3. Hydrological Modeling
    - System transformation and basic theorem
    - Process-based approach
    - Classification of hydrological models
    - History of hydrological models
    - What's the state-of-the-art?
  4. Exercise
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