

# 水資源回收、淨化與再利用於景觀設計之應用研究

陳有祺, 白蓮

景觀建築學系

建築與規劃學院

yuchi@chu.edu.tw

## 摘要

### Abstract

Water is an important factor in the landscape design. However, water resource is more and more scarce, the recycle and reuse of water in landscape design to reach sustainable development purpose become to be a significant mission for the designer. The goal of the study is to apply the water recycle, purification, and reuse in the landscape design.

A system which consist of the units of water recycle, purification, biological conservation and reuse was proposed, and the installations for each unit were designed, including permeable pavement, grass-planting grid, artificial foundation vegetation, grassed swale, gravel ditch, constructed wetland, intermittent sand filter, biological pond, and flood control pond. The design concept and the related theories of capillary drainage, water purification mechanism and ecotechnology were discussed in the study. The figures of each installation with the applied material were constructed. The readers could apply and compose their own recycling system according to the site condition.

關鍵字：Key Words : Water recycle, Water purification, Reuse, Landscape design, Ecotechnology.