



# Design of Urban Stormwater Controls, MOP 23 (Water Resources and Environmental Engineering Series)

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## Innovative Techniques for Designing Urban Stormwater Controls

Fully updated to address the paradigm shift in the way stormwater is viewed and managed, *Design of Urban Stormwater Controls* focuses on consolidating technologies to foster a convergence between traditional stormwater controls and green infrastructure. This authoritative resource explains how systems of stormwater controls can be designed to meet multidisciplinary objectives, including flood control; stream channel protection; groundwater recharge; water quality improvement; protection of public safety, health, and welfare; and multipurpose public benefits.

### Coverage includes:

- Urban stormwater management overview
- Effects of stormwater on receiving waters
- Performance goals for stormwater controls
- Unit processes and operations for stormwater control
- Selection criteria and design considerations
- Swales and strips
- Basins
- Filters and infiltrators
- Gross pollutant traps and mechanical operations
- Maintenance of stormwater controls
- Whole life cost of stormwater controls
- Performance assessment
- Analytical tools for simulation of stormwater controls

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