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# Hydraulic Design Of Storm Sewers Using Excel

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Working Party on the Hydraulic Design of Storm Sewers : International Conference on Urban Storm Drainage, University of Southampton, 11-14 April 1978 : Notes on Conference Sessions

Highway Drainage Guidelines

Design and Construction of Urban Stormwater Management Systems

Working Party on the Hydraulic Design of Storm Sewers

Drinking-Water Distribution, Sewage, and Rainfall Collection

Tables for the Hydraulic Design of Storm-drains, Sewers and Pipe-lines

Design and analysis of urban storm drainage

Design Analysis of Urban Storm Drainage

Design and Construction of Sanitary and Storm Sewers

The Wallingford Procedure

Reliability and Uncertainty Analyses in Hydraulic Design

Urban Drainage

Design and Analysis of Urban Storm Drainage

Street Drainage Design and Modeling

Hydraulic Research in the United States and Canada

Urban Drainage Design Manual - Hydraulic Engineering Circular No. 22 - Third Edition

Design and Analysis of Urban Storm Drainage: Program user's guide

Design of Urban Highway Drainage

The Wallingford Procedure; Volume 1, Principles, Methods and Practice

Federal-aid Policy Guide

Proceedings of the Second International Conference on Urban Storm Drainage, Held at Urbana, Illinois, USA

Design and Analysis of Urban Storm Drainage

Tables for the Hydraulic Design of Storm-drains, Sewers and Pipelines

Design and Construction of Urban Stormwater Management Systems

NBS Special Publication

An Explanation of the Procedure Produced for the Working Party on the Hydraulic Design of Storm Sewers

Volume 2 ; Program User's Guide

Tables for the Hydraulic Design of Storm-drains, Sewers and Pipe-lines. 2nd Edition (metric Units).

Urban drainage design manual

Selected Water Resources Abstracts

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Urban Stormwater Hydraulics and Hydrology

The State-of-the-art

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A Review of Progress March 1974-June 1975

the Wallingford procedure. Program user's guide

Introduction to Hydraulics & Hydrology: With Applications for Stormwater Management

Storm Drainage Systems

Tables for the Hydraulic Design of Storm-drains, Sewers and Pipe-lines

Stormwater Collection Systems Design Handbook

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Working Party on the Hydraulic Design of Storm Sewers : International Conference on Urban Storm Drainage, University of Southampton, 11-14 April 1978 : Notes on Conference Sessions ASCE Publications

This circular provides a comprehensive and practical guide for the design of storm drainage systems associated with transportation facilities. Design guidance is provided for the design of storm drainage systems which collect, convey, and discharge stormwater flowing within and along the highway right-of-way. Methods and procedures are given for the hydraulic design of storm drainage

systems. Design methods are presented for evaluating rainfall and runoff magnitude, pavement drainage, gutter flow, inlet design, median and roadside ditch flow, structure design, and storm drain piping. Procedures for the design of detention facilities are also presented, along with an overview of storm water pumping stations and urban water quality practices.

**Highway Drainage Guidelines** ASCE Publications

\* A comprehensive overview of stormwater and wastewater collection methods from around the world, written by leading experts in the field \* Includes detailed analysis of system designs, operation, maintenance and rehabilitation \* The most complete reference available on the subject

*Design and Construction of Urban Stormwater Management Systems* Water Resources Publications

Prepared by the Subcommittee on Uncertainty and Reliability Analyses in Design of Hydraulic Structures of the Technical Committee on Probabilistic Approaches to Hydraulics of ASCE. This report contains 13 papers presenting the application of reliability analysis to the design and safety of hydraulic structures. Several recent major failures of engineering systems have raised public concern on the safety and reliability of engineering structures. Decades ago, a quantitative evaluation of the reliability of structures was not possible and engineers used safety factors that were determined mainly through experience and judgement. Recent advances in probability

methods and computers make it feasible to evaluate the contributions of various technologic and natural factors to the safety and reliability of structures. The first four papers in this report discuss techniques pertinent to reliability and uncertainty analyses. The next nine papers explore how these techniques can be applied to dam safety, coastal floods, and hydraulic structures. The report concludes with a reprint of an article by Vrijling on the Eastern Scheldt Storm Surge Barrier of the Delta Project in the Netherlands and the use of reliability analysis for sewer design.

Working Party on the Hydraulic Design of Storm Sewers Water Resources Publication This book is dedicated to the latest developments in: (a) new concepts to analyze the urban catchment hydrology for storm runoff predictions, (b) innovative methods to estimate the street allowable capacities to convey storm runoff, and (c) useful computer models to simulate flow movements in inlets and sewers.

**Drinking-Water Distribution, Sewage, and Rainfall Collection** CRC Press

Prepared by the Task Committee of the Urban Water Resources Research Council of ASCE. Copublished by ASCE and the Water Environment Federation. *Design and Construction of Urban Stormwater Management Systems* presents a comprehensive examination of the issues involved in engineering urban stormwater systems. This Manual, which updates relevant portions of *Design and Construction of Sanitary and Storm Sewers, MOP 37*, reflects the many changes taking place in the field, such as the use of microcomputers and the need to control the quality of runoff as well as the quantity. Chapters are prepared by authors with experience and expertise in the particular subject area. The Manual aids the practicing engineer by presenting a brief summary of currently accepted procedures relating to the following areas: financial services; regulations; surveys and investigations; design concepts and master planning; hydrology and water quality; storm drainage hydraulics; and computer modeling.

Tables for the Hydraulic Design of Storm-drains, Sewers and Pipe-lines Momentum Press

Urban drainage design manual hydraulic engineering circular Urban Stormwater Hydraulics and Hydrology Proceedings of the Second International Conference on Urban Storm Drainage, Held at Urbana, Illinois, USA Water Resources Publications Tables for the Hydraulic Design of Storm-drains, Sewers and Pipe-lines The Design and Analysis of Urban

Storm Drainage. Volume 1 An Explanation of the Procedure Produced for the Working Party on the Hydraulic Design of Storm Sewers Tables for the Hydraulic Design of Storm-drains, Sewers and Pipelines Hydrology and Storm Sewer Design Momentum Press

*Design and analysis of urban storm drainage* Thomas Telford

Latest developments of urban hydrology and hydraulic design procedures for storm water management. Drainage planning is an approach that integrates both local and regional efforts to identify drainage conveyance and storage facilities based on hydrologic optimization and cost minimization individually and collectively. In general, the first six chapters cover the hydrologic procedures for rainfall and runoff predictions, and the next 12 chapters focus on hydraulic designs of urban channel, culvert, street inlet, sewer drain, detention basin, retention basin, infiltration basin, low impact designs, and storm water modeling techniques by various routing methods. Hydrology analyses are lengthy in calculation and repetitive in procedure. As a result, Excel Spreadsheet is the most useful and handy tool for hydraulic and hydrologic designs. This book includes 18 sets of spreadsheets developed for 18 subjects. With these spreadsheets, it is easy for the reader to conduct sensitivity tests. Many of the design methods documented in this book have been adopted as the recommended design procedure by Denver, Las Vegas, and Sacramento metropolitan areas in the United States. Based on these methods, there are many design computer models that have been developed and supported by the Denver metro governments for stormwater design purposes.

**Design Analysis of Urban Storm Drainage** AASHTO

Covering conduit and channel shapes by tables of properties based on unit size, this work also includes detailed coverage of the possible effects of variation in water temperature within the normal water resources, as well as considering the treatment of part-full flow in circular pipes.

Design and Construction of Sanitary and Storm Sewers ASCE Publications

This circular provides a comprehensive and practical guide for the design of storm drainage systems associated with transportation facilities. Design guidance is provided for the design of storm drainage systems which collect, convey, and discharge stormwater flowing within and along the highway right-of-way. Methods and procedures are given for the hydraulic design of storm drainage systems. Design methods are presented

for evaluating rainfall and runoff magnitude, pavement drainage, gutter flow, inlet design, median and roadside ditch flow, structure design, and storm drain piping. Procedures for the design of detention facilities are also presented, along with an overview of storm water pumping stations and urban water quality practices. This edition presents a major change in the methodology discussed in Chapter 5 for designing channels and in Chapter 7 for calculating energy losses in storm drain access holes.

*The Wallingford Procedure* Cengage Learning

With its comprehensive coverage of hydraulics and hydrology in a non-calculus format, the Fourth Edition of *INTRODUCTION TO HYDRAULICS & HYDROLOGY* continues the same straightforward, practical approach that has made previous editions so popular. Designed to provide readers with an understanding of the concepts of hydraulics and surface water hydrology as they are used in everyday practice, this edition contains multiple opportunities for practice and real-world applications that are relevant to civil engineering, land developing, public works, and land surveying. Coverage includes topics such as the history of water engineering, basic concepts of computation and design, principles of hydrostatics and hydrodynamics, open channel flow, unit hydrographs, and rainfall, runoff, and routing. Up-to-date, clearly solved examples are included throughout the book to help readers understand how concepts apply in the real-world. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Reliability and Uncertainty Analyses in Hydraulic Design Urban drainage design manual hydraulic engineering

circular Urban Stormwater Hydraulics and Hydrology Proceedings of the Second International Conference on Urban Storm Drainage, Held at Urbana, Illinois, USA The Highway Drainage Guidelines provides a consolidated overview of highway hydraulic design and discusses possible hydrology problems in the following areas: Hydraulic Considerations in Highway Planning and Location; Hydrology; Erosion and Sediment Control in Highway Construction; Hydraulic Design of Highway Culverts; The Legal Aspects of Highway Drainage; Hydraulic Analysis and Design of Open Channels; Hydraulic Analysis for the Location and Design of Bridges; Hydraulic Aspects in Restoration and Upgrading of Highways; Storm Drain Systems;

Evaluating Highway Effects on Surface Water Environments; Highways Along Coastal Zones and Lakeshores; Stormwater Management; Training and Career Development of Hydraulics Engineers; Culvert Inspection, Material Selection, and Rehabilitation; Guidelines for Selecting and Utilizing Hydraulics Engineering Consultants.

**Urban Drainage** McGraw Hill Professional Prepared by the Task Committee of the Urban Water Resources Research Council of ASCE. Copublished by ASCE and the Water Environment Federation. Design and Construction of Urban Stormwater Management Systems presents a comprehensive examination of the issues involved in engineering urban stormwater systems. This Manual, which updates relevant portions of Design and Construction of Sanitary and Storm Sewers, MOP 37, reflects the many changes taking place in the field, such as the use of microcomputers and the need to control the quality of runoff as well as the quantity. Chapters are prepared by authors with experience and expertise in the particular subject area. The Manual

aids the practicing engineer by presenting a brief summary of currently accepted procedures relating to the following areas: financial services; regulations; surveys and investigations; design concepts and master planning; hydrology and water quality; storm drainage hydraulics; and computer modeling.

**Design and Analysis of Urban Storm Drainage** Presses inter Polytechnique Hydrology and Storm Sewer Design includes fundamentals of hydrology and design aspects of various hydraulic engineering devices such as culverts, catch basins, and manholes. This book includes the fundamentals of hydrology, open-channel flow, design of culverts, and overall layout of storm sewers. The author illustrates the use of various methods employed by government agencies for the design of storm sewer appurtenances and devices to effectively drain rural and urban areas subjected to various storm systems. *Street Drainage Design and Modeling* Lulu.com

Urban Drainage has been thoroughly revised and updated to reflect changes in

the practice and priorities of urban drainage. New and expanded coverage includes: Sewer flooding The impact of climate change Flooding models The move towards sustainability Providing a descriptive overview of the issues involved as well as the engineering principles and analysis, it draws on real-world examples as well as models to support and demonstrate the key issues facing engineers dealing with drainage issues. It also deals with both the design of new drainage systems and the analysis and upgrading of existing infrastructure. This is a unique and essential textbook for students of water, environmental, and public health engineering as well as a valuable resource for practising engineers. [Hydraulic Research in the United States and Canada](#)

[Urban Drainage Design Manual - Hydraulic Engineering Circular No. 22 - Third Edition](#)

**Design and Analysis of Urban Storm Drainage: Program user's guide**  
*Design of Urban Highway Drainage The Wallingford Procedure; Volume 1, Principles, Methods and Practice*  
**Federal-aid Policy Guide**