

WATER AND WASTEWATER  
ENGINEERING HYDRAULICS

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## **Author's Note**

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This revised edition is produced by Aquavarra Research Limited as a companion technical volume for its ARTS Hydraulic Design Software.

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## Preface

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This book addresses those areas of applied hydraulics of special interest to engineers engaged in the fields of water supply and wastewater disposal. The analytical methods employed are developed from first principles with an emphasis on engineering application rather than on mathematical rigour. Parameter correlations are presented in a format appropriate to problem solution by computer.

Chapter 1 reviews fluid properties. Chapter 2 reviews the basic concepts of fluid flow including the application of the principles of continuity, energy and momentum. Chapters 3-6 inclusive, deal with flow in closed conduits. Chapters 7, 8 and 10 deal with open channel flow. Chapter 9 is concerned with dimensional analysis and hydraulic modelling. Chapter 11 deals with pumping systems.

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# Contents

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## 1. Fluid properties

- 1.1 Introduction
- 1.2 Viscosity
- 1.3 Surface tension
- 1.4 Vapour pressure
- 1.5 Thermodynamic properties
- 1.6 Compressibility
- 1.7 Density
- References

## 2. Fluid flow

- 2.1 Introduction
- 2.2 Flow classification
- 2.3 Fluid acceleration
- 2.4 Streamtube and control volume concepts
- 2.5 The continuity principle
- 2.6 The momentum principle
- 2.7 The energy principle
- 2.8 Applications of the continuity, energy and momentum principles
  - 2.8.1 Incompressible flow
  - 2.8.2 Compressible flow
- 2.9 Resistance to fluid flow
- References

## 3. Steady flow in pipes

- 3.1 Introduction
- 3.2 Categorisation of flow by Reynolds number
- 3.3 Hydraulic and energy grade lines
- 3.4 Shear stress distribution
- 3.5 Laminar pipe flow
- 3.6 Turbulent flow in pipes
- 3.7 Practical pipe flow computation
  - 3.7.1 The Darcy-Weisbach and Colebrook-White equations
  - 3.7.2 Design values for pipe roughness
  - 3.7.3 Other pipe flow equations
- 3.8 Flow of sewage sludge in pipes
  - 3.8.1 Laminar sludge flow in pipes
  - 3.8.2 Turbulent sludge flow in pipes
- 3.9 Head loss in pipe fittings
  - 3.9.1 Head losses in valves
  - 3.9.2 Other pipe fittings
  - 3.9.3 Head loss in flow of sludge through fittings
- References

## 4. Flow in pipe manifolds

- 4.1 Introduction
- 4.2 Orifice-type pipe manifold

- 4.3 Pipe manifold with pipe laterals
- 4.4 Design of manifold systems
- References

## **5. Steady flow in pipe networks**

- 5.1 Water pipe networks
- 5.2 Head-discharge relationships for pipes
- 5.3 Network analysis
- 5.4 Boundary conditions
- 5.5 Solution of network equations
  - 5.5.1 Hardy Cross method
  - 5.5.2 Simultaneous loop flow correction
  - 5.5.3 Linearization of network equations
  - 5.5.4 Convergence of methods
- 5.6 Worked example: Hardy Cross
- 5.7 Loop selection
- 5.8 Initial flow distribution
- 5.9 Network flow controls
- 5.10 Analysis of existing distribution systems
- 5.11 Network analysis by ARTS
- References

## **6 Unsteady flow in pipes**

- 6.1 Introduction
- 6.2 The continuity equation
- 6.3 The momentum equation
- 6.4 Solution by the method of characteristics
  - 6.4.1 Finite difference formulations
- 6.5 Boundary conditions
  - 6.5.1 Reservoir
    - 6.6.2 Pump at upstream end (running at fixed speed)
    - 6.6.3 Control valve at downstream end.
    - 6.6.4 Valve at an intermediate location
    - 6.6.5 Change in pipe size
  - 6.6 Pressure transients due to pump starting and stopping
    - 6.6.1 Pump characteristics
    - 6.6.2 Pump cut-out: governing equations for pump node
  - 6.7 Waterhammer control
    - 6.7.1 Flywheel
    - 6.7.2 Air vessel
    - 6.7.3 Surge tank
    - 6.7.4 Air valves
  - 6.8 Column separation, entrained gas
  - 6.9 Transient pressure limits
  - 6.10 Waterhammer analysis using ARTS
  - 6.11 Examples of waterhammer computation
  - 6.12 Some practical design considerations
  - 6.13 Some relevant material properties
  - References

## **7. STEADY FLOW IN OPEN CHANNELS**

- 7.1 Introduction
- 7.2 Hydraulic resistance to flow

- 7.2.1 Influence of channel shape on flow resistance
  - 7.3 Computation of uniform flow
    - 7.3.1 Use of ARTS software
  - 7.4 Specific energy
  - 7.5 Rapidly varied steady varied flow: the hydraulic jump
  - 7.5 Gradually varied steady flow
  - 7.6 Computation of gradually varied flow
    - 7.6.1 Computation of surface water profile using ARTS software.
  - 7.7 Channel transitions
    - 7.8.1 Entry flow to closed conduits
- References

## **8. Open channel flow measurement structures**

- 8.1 Introduction
  - 8.2 The broad-crested weir
  - 8.3 The sharp-crested weir
    - 8.3.1 Rectangular sharp-crested weirs
    - 8.3.2 V-notch weirs
    - 8.3.3 The proportional-flow (Sutro) weir
  - 8.4 The critical depth flume
  - 8.5 Sharp-crested orifices
    - 8.5.1 The circular sharp-edged orifice
    - 8.5.2 The rectangular sharp-edged orifice
  - 8.6 Selection and design of flow measurement structures
  - 8.7 Flume and weir design using ARTS
- References

## **9. Dimensional analysis, similitude, and hydraulic models**

- 9.1 Introduction
- 9.2 Dimensionless quantities
- 9.3 The Buckingham  $\pi$  theorem
- 9.4 Physical significance of non-dimensional groups
- 9.5 Similarity requirements in model studies
  - 9.5.1 Pumps and turbines
  - 9.5.2 The use of distorted scales
- 9.6 Concluding comments
  - Related reading

## **10. Unsteady flow in open channels**

- 10.1 Introduction
  - 10.2 Basic equations
  - 10.3 Solution by characteristics method
  - 10.3 Numerical computation procedure
  - 10.5 Simplification of the St Venant equations
  - 10.6 Rapidly varied unsteady flow
    - 10.6.1 Upstream positive surge
    - 10.6.2 Downstream positive surge
    - 10.6.3 Upstream negative surge
    - 10.6.4 Downstream negative surge
- References

## **11. Pumping installations**

- 11.1 Introduction
- 11.2 Pump types

- 11.2.1 Positive displacement pumps
- 11.2.2 Rotodynamic pumps
- 11.2.3 The air-lift pump
- 11.2.4 The Archimedean screw pump
- 11.3 Hydraulics of rotodynamic pump/rising main systems
- 11.4 Economics of pump/rising main systems
- 11.5 Pumping station design
  - 11.5.1 Pump selection
  - 11.5.2 General layout
  - 11.5.3 Pump sump design
- 11.6 Control of pumping

## **Appendix**

Start by marking "Water And Wastewater Engineering Hydraulics" as Want to Read: Want to Read savingâ€¦ The book focuses on those aspects of fluid mechanics and hydraulics of particular relevance to water supply and wastewater disposal engineering, and for the first time, presents an integrated treatment of these topics with an emphasis on application rather than mathematical rigor. The coverage includes steady uniform flow in pipes and channels, flow in pipe manifolds and The book focuses on those aspects of fluid mechanics and hydraulics of particular relevance to water supply and wastewater disposal engineering, and for the first time, presents an integrated treatment of these topics with an Some water or wastewater engineers are involved in conservation efforts and work on educating and encouraging the public to protect the natural resources in their communities. Work Environment. Most water and wastewater engineers work in office buildings, laboratories, or industrial plants. They spend time outdoors where they monitor or direct operations or solve on-site problems. Some water or wastewater engineers travel extensively to plants or work sites in the U.S. and abroad. Many water or wastewater engineers work a standard 40-hour week. At times, deadlines or design standards may bring