

Hydraulics 1: Course notes

Staff

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Course Outline

Hydraulics I

- A Fluid properties*
 - A1 Introduction: Fluids, continuum and density
 - A2 Viscosity, surface tension and pressure
 - A3 Tutorial: fluid properties
- B Hydrostatics*
 - B1 Hydrostatic pressure and the hydrostatic equation
 - B2 Pressure measurement
 - B3 Hydrostatic force on a plane surface
 - B4 Buoyancy and Archimedes Principle
 - B5 Hydrostatic force on a curved surface
 - B6 Tutorial: Hydrostatics
- C Kinematics and continuity*
 - C1 Kinematics
 - C2 Conservation of mass: continuity
 - C3 Tutorial: Kinematics and continuity
- D Energy and momentum: Principles*
 - D1 Conservation of energy: Bernoulli's Equation
 - D2 Bernoulli's Equation: Applications to flow measurement
 - D3 Momentum principle: control volumes
 - D4 Momentum principle: open channel flow
 - D5 Tutorial: forces and hydraulic jumps
- E Pipeflow*
 - E1 Reynolds Experiment: Laminar and turbulent flow
 - E2 Pipeflow: laminar flow
 - E3 Flow from static reservoir (no energy losses)
 - E4 Turbulent flow and head loss
 - E5 Pipeflow: other head losses
 - E6 Tutorial: Pipeflow
- F Energy and momentum: further applications*
 - F1 Sharp expansions and orifice meters
 - F2 Momentum principle: effects of gravity
 - F3 Tutorial: Gravity and flow measurement

Assessment

Coursework (laboratory work and problems):		
	Fluid properties and hydrostatics	5%
	Momentum and energy	5%
	Pipeflow network design project	10%
Exam:	Four out of six questions (free choice)	80%

Books

Massey BS (revised Ward-Smith), *Mechanics of Fluids*. 532
Chadwick AJ and Morfett JC (and Borthwick M, for later editions), *Hydraulics in Civil and Environmental Engineering*. 627
Hamill L, *Understanding Hydraulics*. 627
White FM, *Fluid Mechanics*. 532
Douglas JF and Matthew RD, *Solving Problems in Fluid Mechanics*. 532
Featherstone RE and Nalluri, *Civil Engineering Hydraulics*. 627

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Michael Brown



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Science and Art of Mining, 1914 *The Cultivator & Country Gentleman*, 1872 **Engineering News**, 1903
Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1977 Scientific American, 1895
Academy; a Weekly Review of Literature, Learning, Science and Art, 1876 The Poetical gazette the official organ of the Poetry society and a review of poetical affairs nos 4 7 issued as supplements to the Academy v 79 Oct 15 Nov 5 Dec 3 and 31 1910 Flying, 1946 *The Musical Times and Singing-class Circular*, 1878 Power Plant Engineering, 1926 The Builder, 1893 *Musical Times and Singing Class Circular*, 1888 Engineering News and American Contract Journal, 1897 Iron Age and Hardware, Iron and Industrial Reporter, 1897 **Mechanical Handling and Works Equipment**, 1921 **Machinery and Production Engineering**, 1927

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