

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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**International Railway Congress
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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

The Top Books of the Year

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The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have enthralled audiences this year.

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Personalpagesnchester : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed.

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Personalpagesnchester : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

Discover the Magic : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting.

These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a brilliant and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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