

Important Formulas

Hydrostatic force on inclined plane surface	$F_R = \rho g h_c A$
Position of hydrostatic force on plane ($y_c = 0$)	$y_R = y_c + \frac{I_{xc}}{y_c A}$
Position of hydrostatic force on plane ($x_c = 0$)	$x_R = x_c + \frac{I_{xc}}{y_c A}$
Pressure variation in stationary (incompressible) fluid	$P_2 - P_1 = \rho gh$
Capillary rise in a tube ($\Delta h_{cap} = P_c, \Delta h_{cap} = 2\sigma \cos \theta$)	$h = \frac{2\sigma \cos \theta}{\rho g r}$
Buoyant force (by submerged or displaced volume)	$F_b = \rho V g$
Archimedes Law	$F = \rho g V$
Atmospheric pressure	$p_{atm} = p_{at} + P_{g,atm}$ $p_{at} = p_{at0} - P_{g,atm}$
Continuity of Flow	$Q = A_1 V_1 = A_2 V_2$
Velocity relationship in confined pipe	$V_1 = \frac{Q}{A_1} = \frac{Q}{\frac{\pi D_1^2}{4}}$ $V_2 = \frac{Q}{A_2} = \frac{Q}{\frac{\pi D_2^2}{4}}$
Velocity of flow through opening in large tank	$V = \sqrt{2gh}$
Vertical water velocity	$V_y = \frac{2V_c \left(1 - \frac{y^2}{h^2}\right)}{1 + \left(\frac{y^2}{h^2}\right)}$
Flow through a thin gate	$Q = C_{d,thin} b \sqrt{2gh} \sqrt{h^3 - y^3}$
Flow Through Broad Crest Weir	$Q = C_{d,broad} L H^{3/2}$
Flow through a sharp crested weir	$Q = C_{d,sharp} L H^{3/2}$
Energy loss	$E = \frac{V^2}{2g} + z + \frac{p}{\rho g}$
Hydraulic Grade Line	$HGL = E - \frac{V^2}{2g} = \frac{p}{\rho g} + z$
For points above the hydraulic grade line, $P < 0$ For points below the hydraulic grade line, $P > 0$	

Fluid Properties Relationship Tree



Fluid Dynamics

Velocity field	$\vec{V} = u\vec{i} + v\vec{j} + w\vec{k}$		
Acceleration field	$a_x = \frac{du}{dt} = \frac{\partial u}{\partial t} + u \frac{\partial u}{\partial x} + v \frac{\partial u}{\partial y} + w \frac{\partial u}{\partial z}$ $a_y = \frac{dv}{dt} = \frac{\partial v}{\partial t} + u \frac{\partial v}{\partial x} + v \frac{\partial v}{\partial y} + w \frac{\partial v}{\partial z}$ $a_z = \frac{dw}{dt} = \frac{\partial w}{\partial t} + u \frac{\partial w}{\partial x} + v \frac{\partial w}{\partial y} + w \frac{\partial w}{\partial z}$		
Accel of steady flow in streamline	$a = V \frac{dV}{ds} = \frac{V^2}{R}$		
	Change in V due to change in	Equal for every stream flow in	
Local Acceleration	$\frac{\partial V}{\partial t}$	Time	Steady
Convective Acceleration	$V \frac{\partial V}{\partial x} + V \frac{\partial V}{\partial y} + V \frac{\partial V}{\partial z}$	Position	Unsteady
Rayleigh Transport Theorem	$\frac{D}{Dt} \int_{CV} \rho \phi dV = \int_{CV} \rho \frac{D\phi}{Dt} dV + \int_{CS} \rho \phi (\vec{V} \cdot \vec{n}) dA$		

Bernoulli Equation

Valid for steady, incompressible, and inviscid flow. Only valid along a streamline. Only valid within a single continuous fluid.

Pressure form	$P_1 + \rho g y_1 + \frac{\rho V_1^2}{2} = P_2 + \rho g y_2 + \frac{\rho V_2^2}{2}$		
Energy head form	$\frac{P}{\rho g} + y + \frac{V^2}{2g} = \text{constant}$		
	$P = 0$	$V = 0$	$Z = 0$
At atmospheric surface	✓		
In free jet	✓		
At datum elevation			✓
At stagnation point		✓	
In large tank			✓
At top of free jet	✓	✓	
Impinging conditions	P_{stagn}		

Streamline Function

$$\frac{dy}{dx} = \frac{v}{u} \Rightarrow u dx - v dy = 0 \Rightarrow \psi = \text{const}$$



Common Physical Properties / Units

	SI	Imperial
Atmospheric Pressure, P_{atm}	101.3 kPa	14.7 psi = 2.116 lb/in ²
Density ρ (H ₂ O)	1000 kg/m ³	1.940 slug/ft ³
Specific Weight γ (H ₂ O)	9810 N/m ³	62.4 lb _f /ft ³
Acid Gravity ρ	1.84 slug/ft ³	59.8 lb _f /ft ³
Length L	1 m = $\frac{1}{3.281}$ ft	1 ft = 0.3048 m
Mass, m	1 kg = 2.205 lb _m 1 kg = 0.001102 slug	1 lb _m = $\frac{1}{3.281}$ slug 1 slug = 32.17 lb _m
Force, F	1 N = $\frac{1}{2.205}$ lb _f	1 lb _f = 4.448 N
Temperature, θ	1 °C = 1.8 °F	1 °F = $\frac{1}{1.8}$ °C
Volume, V	1 m ³ = 35.31 ft ³	1 ft ³ = 0.0283 m ³

Pitot Tube

Left head height is $\frac{V}{2g}$ and right head is $\frac{V}{2g} + \frac{V^2}{2g}$



Properties of 2-D Shapes

	$d = h$ $I_x = \frac{1}{12} b h^3$ $I_y = \frac{1}{12} h b^3$ $I_{xy} = 0$
	$d = d$ $I_x = I_y = \frac{\pi d^4}{64}$ $I_{xy} = 0$
	$d = \frac{d}{2}$ $I_x = \frac{1}{8} \pi d^4$ $I_y = 0.1098 \pi d^4$ $I_{xy} = 0$
	$d = \frac{1}{3} h$ $I_x = \frac{1}{36} b h^3$ $I_y = \frac{1}{72} b^3 h$ $I_{xy} = -\frac{1}{72} b^2 h^2$
	$d = \frac{4r}{3}$ $I_x = I_y = 0.1098 \pi r^4$ $I_{xy} = -0.0833 \pi r^4$

Fluids Exam Answer Sheet

N Colangelo



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The Top Books of the Year Fluids Exam Answer Sheet The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Fluids Exam Answer Sheet : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling 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 mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins 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 exceptional and thrilling novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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