

Midterm 2 Formula Sheet

Tuesday, April 19, 2016

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Fluid Mechanics & Pressure

- density (ρ) = $\frac{m}{V}$
- pressure (P) = $\frac{F}{A} \rightarrow P = \frac{F}{A}$
- $\frac{F}{A} = \frac{mg}{A} \rightarrow P = \frac{F}{A} = \frac{mg}{A}$
- buoyancy (B) = $\rho_{fluid} V_{sub} g$

Continuity:
 $\rho_1 v_1 A_1 = \rho_2 v_2 A_2$
 (if $\rho_1 = \rho_2$)
 $v_1 A_1 = v_2 A_2$

- Pressure Law: pressure is isotropic
 $P = \frac{F}{A} = \frac{F}{A}$
- Continuity: fluid flow is conserved
 $\rho_1 v_1 A_1 = \rho_2 v_2 A_2$
- compressible: $\rho_1 v_1 A_1 = \rho_2 v_2 A_2$
- incompressible: $\rho_1 v_1 A_1 = \rho_2 v_2 A_2$

- Bernoulli's Equation:
 $P + \rho g h + \frac{1}{2} \rho v^2 = \text{constant}$
- For incompressible:
 $P + \rho g h + \frac{1}{2} \rho v^2 = \text{constant}$
- For compressible:
 $P + \rho g h + \frac{1}{2} \rho v^2 = \text{constant}$

Oscillation Related identities

$\sin^2 \theta + \cos^2 \theta = 1$
 $\sin^2 \theta = 1 - \cos^2 \theta$
 $\cos^2 \theta = 1 - \sin^2 \theta$
 $\sin^2 \theta = \frac{1 - \cos(2\theta)}{2}$
 $\cos^2 \theta = \frac{1 + \cos(2\theta)}{2}$

Periodic Motion

- Simple Harmonic Motion: $x = A \cos(\omega t + \phi)$
- SHM: $x = A \cos(\omega t + \phi)$
- By conservation: $\frac{1}{2} k x^2 = \frac{1}{2} m v^2$
- Damped Harmonic Motion: $x = A e^{-\gamma t} \cos(\omega t + \phi)$
- energy loss ($\frac{dE}{dt}$) = $-\gamma v^2$

Driven Oscillation: $x = A \cos(\omega t + \phi)$

$A = \frac{F_0}{m \sqrt{(\omega_0^2 - \omega^2)^2 + \gamma^2 \omega^2}}$ $\phi = \arctan\left(\frac{\gamma \omega}{\omega_0^2 - \omega^2}\right)$

Wave: $y = y_m \cos(kx - \omega t)$

- let $t = 0$ to switch direction
- velocity of a particle (v) = $-\omega y_m \sin(kx - \omega t)$
- wave equation: $\frac{\partial^2 y}{\partial x^2} = -\frac{1}{v^2} \frac{\partial^2 y}{\partial t^2}$
- Superposition: given y_1 and y_2 , $y_{total} = y_1 + y_2$ is also a solution

Standing Wave: $y = y_m \sin(kx) \cos(\omega t)$

- $y = \frac{y_m}{2} \sin(kx) \cos(\omega t)$
- nodes of displacement = antinodes of pressure since $P = -B \frac{\partial y}{\partial x}$
- Antinodes: $x = \frac{\lambda}{4}, \frac{3\lambda}{4}, \frac{5\lambda}{4}, \dots$
- Nodes: $x = \frac{\lambda}{2}, \lambda, \frac{3\lambda}{2}, \dots$

Moments of Inertia

- 1) Uniform rod, axis through center: $\frac{1}{12} M L^2$
- 2) Uniform rod, axis through end: $\frac{1}{3} M L^2$
- 3) Rectangle, center axis: $\frac{1}{12} M (a^2 + b^2)$
- 4) Rectangle, edge axis: $\frac{1}{12} M (a^2 + b^2) + M d^2$
- 5) Solid cylinder: $\frac{1}{2} M R^2$
- 6) Hollow cylinder: $M R^2$
- 7) Solid sphere: $\frac{2}{5} M R^2$
- 8) Hollow sphere: $\frac{2}{3} M R^2$

Parallel Axis Theorem: $I = I_{cm} + M d^2$

Polar Coordinates

- $A_x = |A| \cos \theta$
- $A_y = |A| \sin \theta$
- $A = |A| \cos \theta \hat{i} + |A| \sin \theta \hat{j}$

Microscopics

- $F = -\nabla U$
- weightlessness / no contact when normal force = 0 N

Simple Harmonic Motion

- $x = A \cos(\omega t + \phi)$
- $v = -A \omega \sin(\omega t + \phi)$
- $a = -A \omega^2 \cos(\omega t + \phi)$

Sound

- bulk modulus (B) = $\frac{\Delta P}{\Delta V / V}$
- $\Delta P = B \frac{\Delta V}{V}$
- $\rho_{air} = 1.2 \text{ kg/m}^3$

Doppler Effect

- $f' = f \frac{v \pm v_o}{v \pm v_s}$
- $\lambda' = \frac{v}{f'}$
- source closer if source moves faster than sound

Sound Reception

- Intensity = $\frac{P}{A} = \frac{P}{4\pi r^2}$
- Sound intensity level (β) = $(10 \text{ dB}) \left(\frac{I}{I_0} \right)$
- $I_0 = 10^{-12} \text{ W/m}^2$
- human range: 10^{-12} W/m^2 to 1 W/m^2



$\frac{1}{f} = \frac{1}{f_1} + \frac{1}{f_2}$

Trig Identities

- $\sin(\theta \pm \phi) = \sin \theta \cos \phi \pm \cos \theta \sin \phi$
- $\cos(\theta \pm \phi) = \cos \theta \cos \phi \mp \sin \theta \sin \phi$
- $\tan(\theta \pm \phi) = \frac{\tan \theta \pm \tan \phi}{1 \mp \tan \theta \tan \phi}$
- $\sin(2\theta) = 2 \sin \theta \cos \theta$
- $\cos(2\theta) = \cos^2 \theta - \sin^2 \theta$
- $\tan(2\theta) = \frac{2 \tan \theta}{1 - \tan^2 \theta}$
- $\sin^2 \theta = \frac{1 - \cos(2\theta)}{2}$
- $\cos^2 \theta = \frac{1 + \cos(2\theta)}{2}$
- $\tan^2 \theta = \frac{1 - \cos(2\theta)}{1 + \cos(2\theta)}$

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