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Engineering Mechanics Dynamics Formula Sheet

If $Z = A + B$, then $\pm Z = \pm A \pm B$ where, A and B are two physical quantities, A and B are their absolute errors and Z is error in their sum or difference. If $Z = AB$, then $\frac{\Delta Z}{Z} = \frac{\Delta A}{A} + \frac{\Delta B}{B}$...

Engineering Fluid Mechanics - Staffordshire University

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Revision : Fluid mechanics

Q = Volume of water collected k = Coefficient of permeability i = Hydraulic gradient, h/L A = Cross-sectional area of sample t = Duration of time for collection of water L = Length of the sample. For granular soil, $31.2 K = \frac{1}{e}$ For Horizontal flow $32.3 K = \frac{e}{1+e}$ For vertical flow 33.

List of equations in classical mechanics - Wikipedia

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weight. $U_1 - 2 = -W \quad y = -W(y_2 - y_1)$ Work of the force exerted by a spring. (x is the deformed distance) $U_1 - 2 = kx_1 - kx$. Work of a gravitational force) $U = GMm - \dots$ PRINCIPLE OF WORK AND ...
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Fluid Mechanics key facts (5/5)

• The pressure in a flowing fluid obeys Bernoulli ' s equation :

results from the conservation of energy • For a horizontal pipe,

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Stress Transformation Equations. $s_x = s_x + s_y^2 + s_x - s_y^2 \cos 2u + t_{xy} \sin 2u$. $t_{xy} = -s_x - s_y^2 \sin 2u + t_{xy} \cos 2u$. Principal Stress. $\tan 2u_p = t_{xy} / (s_x - s_y) > 2$. $s_{1,2} = s_x + s_y^2 \{Aa. s_x - s_y^2 b. 2 + t_x y$. Maximum in-plane shear stress. $\tan 2u_s = - (s_x - s_y) > 2 t_{xy}$. $t_{max} = Aa. s_x - s_y^2 b. 2 + t^2 xy$. $s_{avg} = s_x + s_y^2$ Absolute maximum shear stress. $t_{absmax} =$
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Short columns: Slenderness ratio ($KL/r < 50$). Slender columns: Slenderness ratio ($KL/r \geq 200$). The calculation for slender columns uses the modulus of elasticity (E). Intermediate columns: Slenderness ratio ($50 \leq KL/r < 200$). The formula for intermediate columns uses the tangential modulus of elasticity (E_t).

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$r_{com} = 1/M \int dm = 1/M \int r dm = 1/M \int r dV$. $\mathbf{r} = \int \mathbf{r} dm = \int \mathbf{r} \rho dV$. $\mathbf{m} = \int \rho dV$. • This equation

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$M = V / a$ (4.5) Where M = Mach number V = fluid flow velocity

(m/s) a = speed of sound (m/s) Download free ebooks at

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Mach number can be expressed with the density and the bulk

modulus for elasticity as.

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dealing with mechanics of materials, choosing the correct formula

to calculate the stress at a given point can be difficult.