

Wzory na egzamin

| Lp. | Oznaczenie | Wzory |
|-----|---------------------------------|---|
| 1 | ρ_s γ_s | $\rho_s = \frac{m_s}{V_s}; \quad \gamma_s = \frac{W_s}{V_s} = \rho_s g$ |
| 2 | ρ γ | $\rho = \frac{m}{V}; \quad \gamma = \frac{W}{V} = \rho g; \quad \rho = (1 + w)\rho_d$ |
| 3 | w w_n | $w = \frac{m_w}{m_s} \cdot 100\%$ |
| 4 | n | $n = \frac{V_p}{V}; \quad n = \frac{\rho_s - \rho_d}{\rho_s} = \frac{\gamma_s - \gamma_d}{\gamma_s}; \quad n = \frac{e}{1+e}$ |
| 5 | e | $e = \frac{V_p}{V_s}; \quad e = \frac{\rho_s - \rho_d}{\rho_d} = \frac{\gamma_s - \gamma_d}{\gamma_d}; \quad e = \frac{n}{1-n}$ |
| 6 | ρ_d γ_d | $\rho_d = \frac{m_s}{V}; \quad \gamma_d = \frac{W_s}{V} = \rho_d g; \quad \rho_d = (1 - n)\rho_s$ |
| 7 | I_D | $I_D = \frac{V_{max} - V}{V_{max} - V_{min}} = \frac{e_{max} - e}{e_{max} - e_{min}};$ |
| 8 | I_L | $I_L = \frac{w_n - w_P}{w_L - w_P};$ |
| 9 | I_P | $I_P = w_L - w_P;$ |
| 10 | w_{sat} | $w_{sat} = \frac{n\rho_w}{(1-n)\rho_s} \cdot 100\% = \frac{e\rho_w}{\rho_s} \cdot 100\%;$ |
| 11 | S_r | $S_r = \frac{V_w}{V_p} = \frac{w_n}{w_{sat}}; \quad S_r = \frac{w_n \rho_s}{e \rho_w}$ |
| 12 | γ_{sat} γ_{sr} | $\gamma_{sat} = (1 - n)\rho_s g + n\rho_w g = (1 - n)\gamma_s + n\gamma_w;$ |
| 13 | γ' | $\gamma' = (1 - n)\rho_s g - (1 - n)\rho_w g = (1 - n)(\gamma_s - \gamma_w);$ $\gamma' = \gamma_{sat} - \gamma_w;$ |