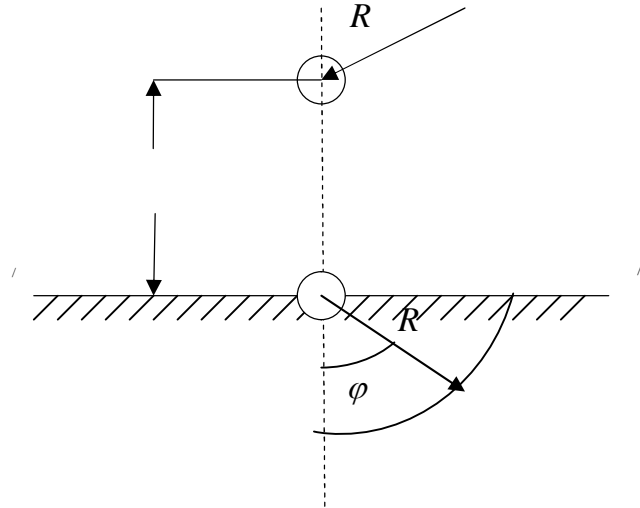


$i // (. 1),$

$R .$



. 1.

R

(R)

R

$(-)$

r_0

$(. 1),$

$R -$

$(. . 1).$

$$r_0 = k(\bar{R}^{-\mu}); \bar{R} = \frac{R}{r_3} > 10. \tag{1}$$

$\bar{R} -$

$; R -$

$; r -$

$; k \mu -$

$$\sigma_r = k \left(\frac{R}{r_3} \right)^{-\mu}, \quad (2)$$

R –

$$\sigma_r = \frac{Mg}{S} \frac{\sqrt{2gH}}{g} \frac{\sqrt{E'}}{4R} = \frac{1}{4} \frac{Mg}{gR} \sqrt{2gHE'}, \quad (3)$$

$$= \frac{Mg}{S}; S = 2 R^2; g - ; - ; - \quad (3)$$

$$(1) (3), \quad (2)$$

$$\sigma_r = \sigma_r \left(\frac{R}{R} \right)^{-\mu} = \frac{1}{4gR} \sqrt{\frac{2gHE'}{\rho}} \left(\frac{R}{R} \right)^{-\mu} \quad (4)$$

().

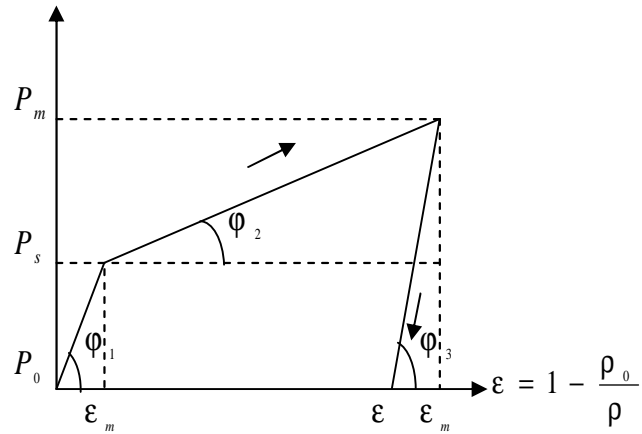
$$P_r = -\frac{\sigma_r + 2\sigma_\varphi}{3} = -\frac{(1+2k\tau)}{3} \sigma_r(R, \varphi) = -\frac{(1+2k\tau) \cos(\frac{2}{3}\varphi)}{12} \frac{\sigma}{gR} \sqrt{\frac{2gHE'}{\rho}} \left(\frac{R}{R} \right)^{-\mu}, \quad (5)$$

$$k = \frac{\sigma_\varphi}{\sigma_\tau} -$$

(. 2):

$$\begin{aligned} P &= P_r; \\ P &= P_0 + E_0 \varepsilon \quad P \leq P_s; \\ P &= P_s + E_1 (\varepsilon - \varepsilon_s) \quad P > P_s \\ P &= P_m + E_2 (\varepsilon - \varepsilon_m) \quad P_m > P_s \end{aligned} \quad (6)$$

s — P_s ; m — P_m ; — E_0, E_1, E_2 —



. 2.

$$E_0 = {}_0c_y^2; E_1 = {}_0c_n^2; E_2 = {}_0c_p^2, \tag{7}$$

c_y, c_n, c_p —

(6):

$$= m - \frac{P_m - P_0}{E_2}. \tag{8}$$

m

(6)

$P = P_m$:

$$m = \epsilon_s + \frac{P_m - P_s}{E_1}. \tag{9}$$

(6):

$$\epsilon_s = \frac{P_s - P_0}{E_0}. \tag{10}$$

m s (9) (10) (8),

$$= K_{20}P_0 + K_{01}P_s + K_{12}P_m, \tag{11}$$

$$K_{20} = \frac{1}{E_2} - \frac{1}{E_0}; K_{01} = \frac{1}{E_0} - \frac{1}{E_1}; K_{12} = \frac{1}{E_1} - \frac{1}{E_2} \tag{12}$$

(5)

$$P_m = |P_r|:$$

$$\varepsilon = K_{20}P_0 + K_{01}P_s + K_{12} \frac{(1+2k\tau)M \sqrt{\frac{2gHE}{\rho}}}{24\pi R^3} \left(\frac{R}{R}\right)^{-\mu} \cos\left(\frac{2}{3}\varphi\right). \quad (13)$$

$$R = R \left\{ \frac{K_{12}(1+2k_\tau)M \cos(\frac{2}{3}\varphi) \sqrt{2gHE/\rho}}{24\pi R^3 (\varepsilon - K_{20}P_0 - K_{01}P_s)} \right\}^{\frac{1}{\mu}}. \quad (14)$$

(13) (14) , - (K₀₁, K₂₀, K₁₂, k P_s) (, ,), μ (1).

1. / - ., 1995. - 451 .
2. . . . - / . . . , . - ., 1997. - 72-75 .
3. . . . - / // , . - 198. - 3. - . 17-19.