



( )

$$\sigma_{zi} = \sum_{i=1}^n \gamma_i z_i; \quad (1)$$

$$\sigma_x = \sigma_y = \sum_{i=1}^n \xi_i \gamma_i z_i; \quad (2)$$

$$\sigma_x = \sigma_y = \xi \sigma_z = \frac{\mu_0}{1 - \mu_0} \gamma \cdot z; \quad (3)$$

$$\tau_{xy} = \tau_{xz} = \tau_{yz} = 0; \quad (4)$$

$\gamma_i$  —

;  $\mu_0$  —

$\sigma$

$$\text{---} = \text{tg} \left( 45^\circ - \frac{\varphi}{2} \right), \quad (5)$$

0,

$$\begin{aligned} &= z + \frac{C}{\text{tg} \varphi}; \\ &= \sigma_x + \frac{C}{\text{tg} \varphi}. \end{aligned} \quad (6)$$

$$G_{S,ij} \quad y \neq 0 \quad C \neq 0$$

$$G_{S,ij} = \sigma_{.ij} \cdot A_{.i}, \quad (7)$$

$$A_{.i} - ,$$

$$(6): \quad G_{.ij} = \left( \sigma_{.ij} + \frac{C_i}{\operatorname{tg}\varphi_i} \right) \cdot A_{.i} \cdot \xi,$$

$$G_{.ij} = \left( \sigma_{.ij} + \frac{C_i}{\operatorname{tg}\varphi_i} \right) \cdot A_{.i} \cdot \xi, \quad (8)$$

$$\xi - \quad (5).$$

$\eta_{ij}$ :

$$\eta_{ij} = \frac{G_{.ij}}{G_{S,ij}}, \quad (9)$$

$$\left( \quad \right) \cdot \quad , \quad \alpha = \varphi. \quad = 0, \quad \neq 0, \quad 90^\circ,$$

$h,$

$$h_{90^\circ} = \frac{2C}{\gamma}. \quad (10)$$

$$H_{90^\circ} = \frac{2C}{\gamma} \cdot \operatorname{ctg}\left(45^\circ - \frac{\varphi}{2}\right). \quad (11)$$

$90^\circ)$

$$S_c \quad (4) \quad ( \quad ) .$$

$$S_c = \frac{a}{g} P, \quad (12)$$

$$S_c = \pm K_c \cdot P, \quad \frac{a}{g} \quad K_c \quad (12)$$

$$\begin{aligned} S_c &= \pm S_c \cdot \sin \theta; \\ S_c &= \pm S_c \cdot \cos \theta, \end{aligned} \quad (13)$$

$$a = 4\pi^2 f^2 A; \quad (14)$$

$f -$

[4]

$$\Delta = 1200 \dots 2400 \quad ( \quad , \quad \Delta = 8$$

,

,

$$( 10 ),$$

$$= \frac{\vartheta}{}, \quad (16)$$

$\vartheta -$

; -

,

,

[5]

$$\vartheta = 1,265 \sqrt{\frac{E_r}{\rho \vartheta}}, \quad (17)$$

 $E_r -$ [5], / <sup>2</sup>,

$$E_r = 1,75 \cdot E_m \cdot r^{-3,2}, \quad (18)$$

 $E_m -$   
 $r,$ 

$$E_m = \frac{E}{4 r^2}, \quad (19)$$

$$= 1,45 \cdot 10^{-3} \cdot r^{1,15}.$$

 $\vartheta,$  (17),

$$= \frac{2\rho_1 V_{P_1}}{\rho_1 V_{P_1} + \rho_2 V_{P_2}}, \quad (20)$$

 $\rho_1 V_{P_1} \quad \rho_2 V_{P_2} -$ 

(17)

2

