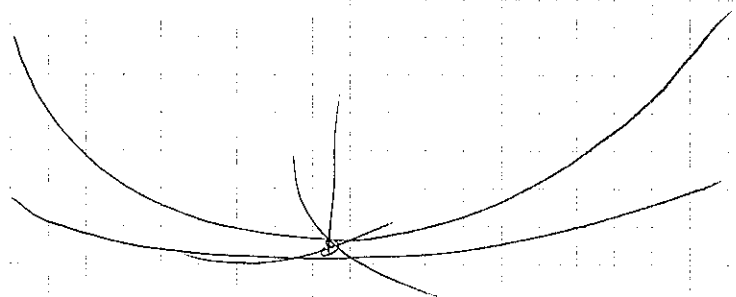


$$= \frac{d + \sqrt{d^2 + x_{\max}^2}}{C}$$

$$Z_{0ms} = \frac{d + \sqrt{d^2 + \lambda \max^2}}{\sqrt{5} \sigma_0 - K} - \frac{d + \sqrt{d^2 + \lambda \max^2}}{\sqrt{5} \sigma_0}$$



$$Z_{0m\Delta} = \frac{L(d)}{\frac{1}{(1380)(1380 - \omega^2)C}}$$

$$20 \times C_0 \times (C_0 - \Delta C) = L(d) \Delta C$$

$$20C_0^2 = 2(d) \Delta C + 20C_0 \Delta C$$

4) 11.9 方向土壤質 $\frac{1}{2} = \Delta C (20C_0 + 2(d))$

12. $\ln 7 (2.19)$

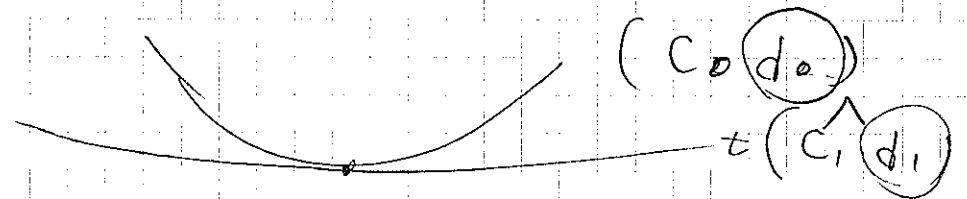
$$\Delta C = \frac{20 C_0^2}{20 C_0 + 2 (d)}$$

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$$1. d = \frac{d_0}{C_0} \cdot C \quad d_1$$

$$2. \Delta C = \frac{2 \Delta t \cdot C_0^2}{2 \Delta t \cdot C_0 + (d + \sqrt{d^2 + x_{\max}^2})}$$



$$\Delta t = \frac{d_1 + \sqrt{d_1^2 + x_{\max}^2}}{\underbrace{C_0 - \Delta C}_{C_1}} \quad \frac{d_0 + \sqrt{d_0^2 + x_{\max}^2}}{C_0}$$

$$= \frac{\frac{d_0}{C_0} C_1 + \sqrt{\left(\frac{d_0}{C_0} C_1\right)^2 + x_{\max}^2}}{C_1}$$

$$\underbrace{\frac{d_0 + \sqrt{d_0^2 + x_{\max}^2}}{C_0}}_{A(d_0, C_0)}$$

$$\left(\Delta t + A(d_0, C_0) \right) C_1 = \frac{d_0}{C_0} C_1 + \sqrt{\left(\frac{d_0}{C_0} C_1\right)^2 + x_{\max}^2}$$

$$\left(\Delta t + A(c_0, d_0) - \frac{d_0}{c_0} \right) c_1$$

$$= \sqrt{\left(\frac{d_0}{c_0} c_1 \right)^2 + \lambda_{\max} x'}$$

$$\left\{ \underbrace{\Delta t + A(c_0, d_0) - \frac{d_0}{c_0}}_{B(c_0, d_0)} \right\}^2 c_1^2 = \left(\frac{d_0}{c_0} \right)^2 c_1^2 + \lambda_{\max} x'^2$$

$$\left\{ B(c_0, d_0)^2 - \frac{2d_0}{c_0} B(c_0, d_0) + \left(\frac{d_0}{c_0} \right)^2 - \left(\frac{d_0}{c_0} \right)^2 \right\} c_1^2 = \lambda_{\max} x'^2$$

$$c_1 = \frac{\lambda_{\max} x'}{\sqrt{B(c_0, d_0)^2 - \frac{2d_0}{c_0} B(c_0, d_0)}}$$

$$\left(\Delta C = \frac{\lambda_{\max} x'}{\sqrt{B(c_0, d_0)^2 - \frac{2d_0}{c_0} B(c_0, d_0)}} - c_1 \right)$$

$$\Delta t = - \frac{\overset{A}{\underset{''}{L(x_{max}, d)}}}{\bar{v}} + \frac{\overset{B}{\underset{''}{\hat{L}(x_{max}, d)}}}{\hat{v}}$$

$$\Delta t \bar{v} \cdot \hat{v} = -A \bar{v} + B \cdot \bar{v}$$

$$\Delta t (-\hat{v} + \frac{B}{\Delta t}) \bar{v} = A \bar{v}$$

$$\bar{v} = \frac{A \bar{v}}{\Delta t (B - \hat{v})} \frac{m/s}{s \cdot (m - m/s)}$$

$$\bar{v} - \bar{v} = \bar{v} \cdot \left(1 - \frac{A}{\Delta t \cdot (B - \hat{v})} \right)$$

$$= \hat{v} \cdot \left(1 - \frac{L(x_{max}, d)}{\Delta t_{max} (\hat{L}(x_{max}, \hat{d}) - \hat{v})} \right)$$

$$(B - \Delta t \hat{v}) \bar{v} = A \hat{v}$$

$$\bar{v} = \frac{A \hat{v}}{B - \Delta t \hat{v}}$$

\bar{v}

$m \cdot m/s$

$\frac{m^2}{s} \cdot \Delta t$

$$\bar{v} - \bar{v} = \bar{v} \cdot \left(1 - \frac{A}{B - \Delta t \hat{v}} \right)$$

$$A \bar{v} = \hat{v} \cdot \left(1 - \frac{L(x_{max}, d)}{\hat{L}(x_{max}, \hat{d}) - \Delta t \hat{v}} \right)$$