

R_0

R_L / R_0

$d = 0.45 \text{ cm}$

$l = 0.5 \text{ cm}$

$p = 0.078$

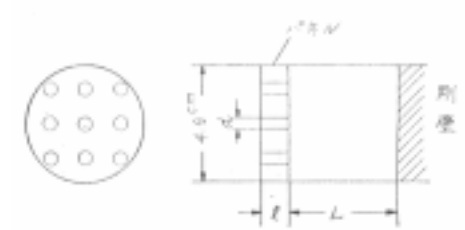
X_{mo}

X_{co}

X

X_{mo}, X_{mc}, X'

4)



1)

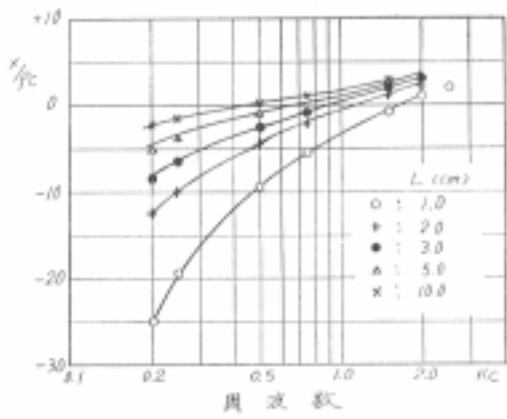
2)

3)

	l cm	d cm	n	p
A	0.5	0.45	13	0.113
B	0.5	0.45	9	0.078
C	0.5	0.45	5	0.043
D	1.0	0.45	9	0.078
E	2.0	0.45	9	0.078
F	0.5	0.32	9	0.039

4.9cm

0.1 ρc



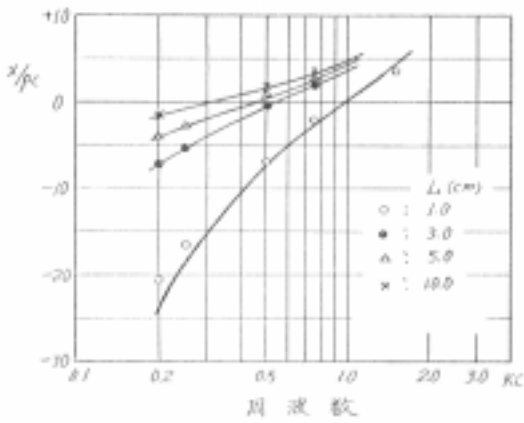
$$\rho$$

$$c$$

$$v = V/n, V$$

$$l$$

$$l_e = l + 0.8\sqrt{s}$$

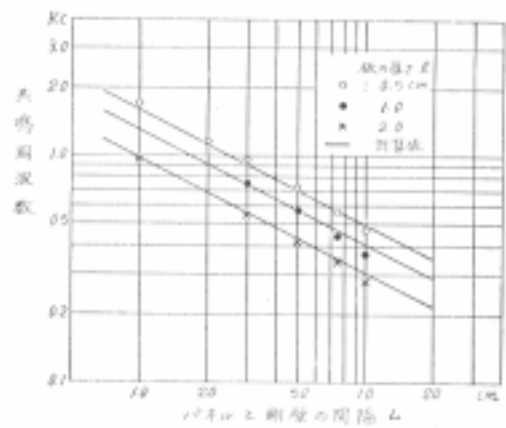


$$X_0 = 0$$

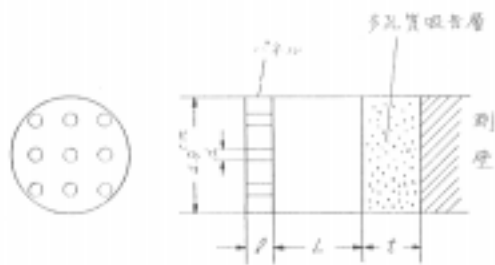
5)

$$X_0 = \frac{S}{n} \left(\frac{\omega p l_e}{s} - \frac{\rho c^2}{\omega v} \right) \text{ (gr. cm}^{-2} \text{ sec}^{-1} \text{)}$$

S
 n
 ω
 l_e
 s



$$(d = 0.45 \text{ cm}, n = 9, p = 0.078)$$



	()		gr · cm ⁻³	t cm
a	B		0.20	1.4
b	B		0.33	1.2
c	C		0.20	1.4
d	B		0.17	1.1
e	E		0.17	1.1
f	F		0.33	1.8

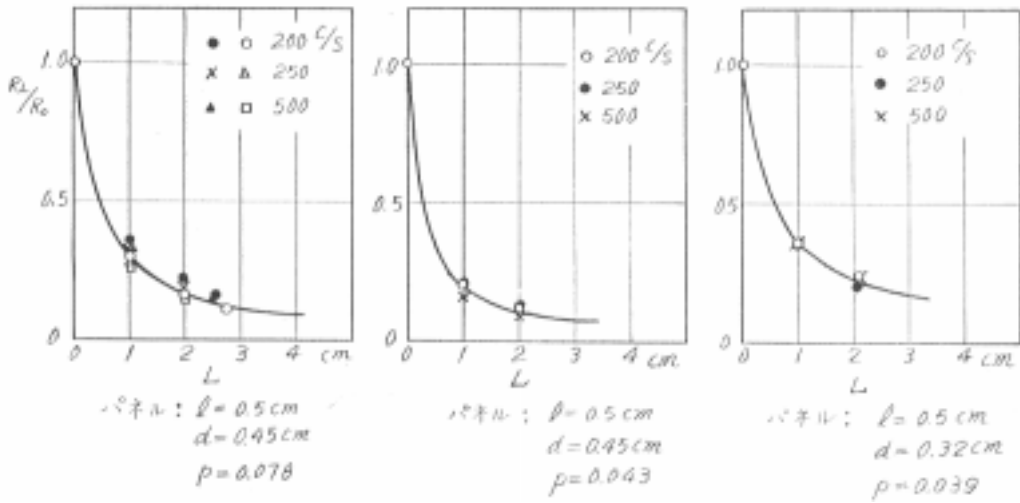
(L=0)

R_0

R

R_L

R_L / R_0



R_L / R_0

L

R_0

R

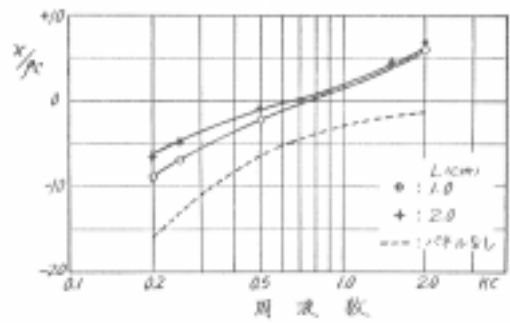
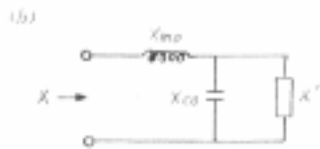
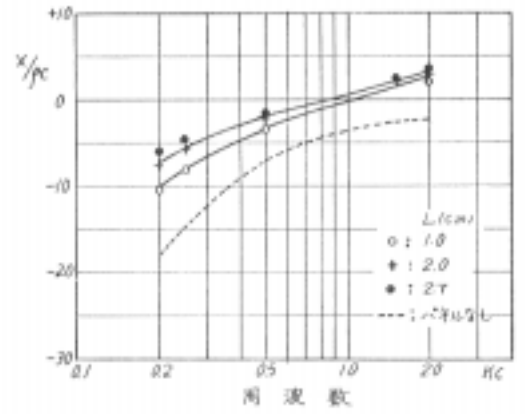
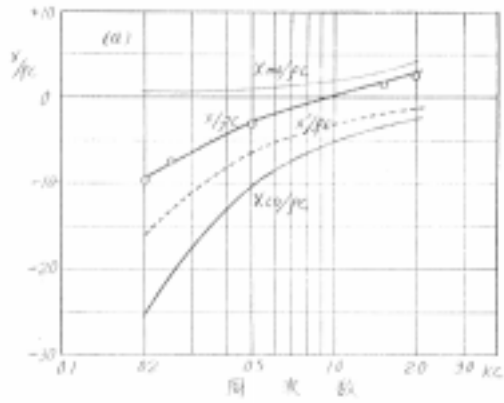
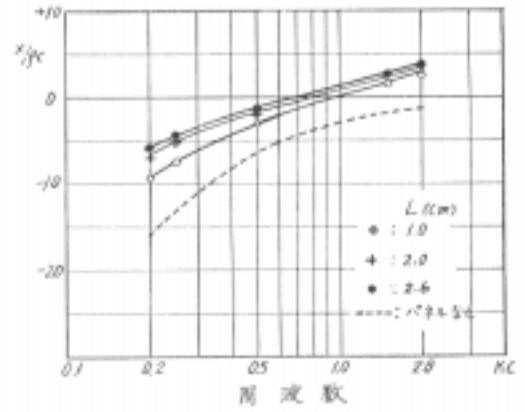
R_0 / R

R_0 / R

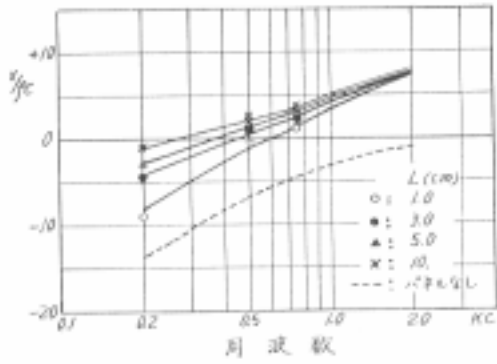
R_0 / R

X', X_{m0}, X_{c0}

X', X_{m0}, X_{c0}



$$X = X_{m0} + \frac{1}{\frac{1}{X'} + \frac{1}{X_{c0}}}$$

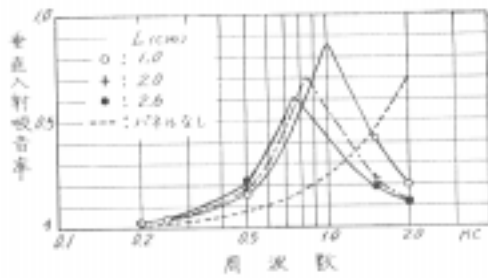


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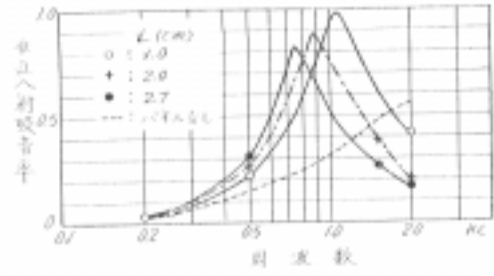
6)

$$\alpha_0 = \frac{4r}{(r+1)^2 + x^2}$$

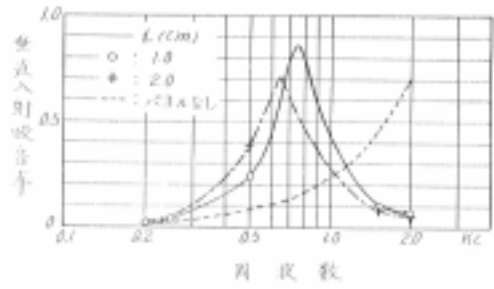
$$r = R / \rho c, \quad x = X / \rho c$$



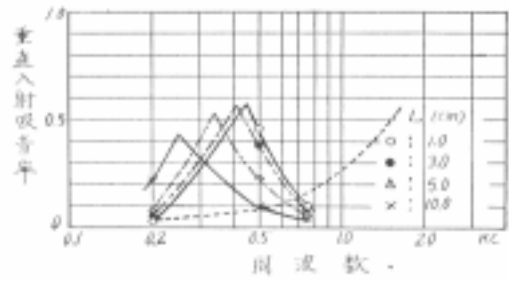
11



12



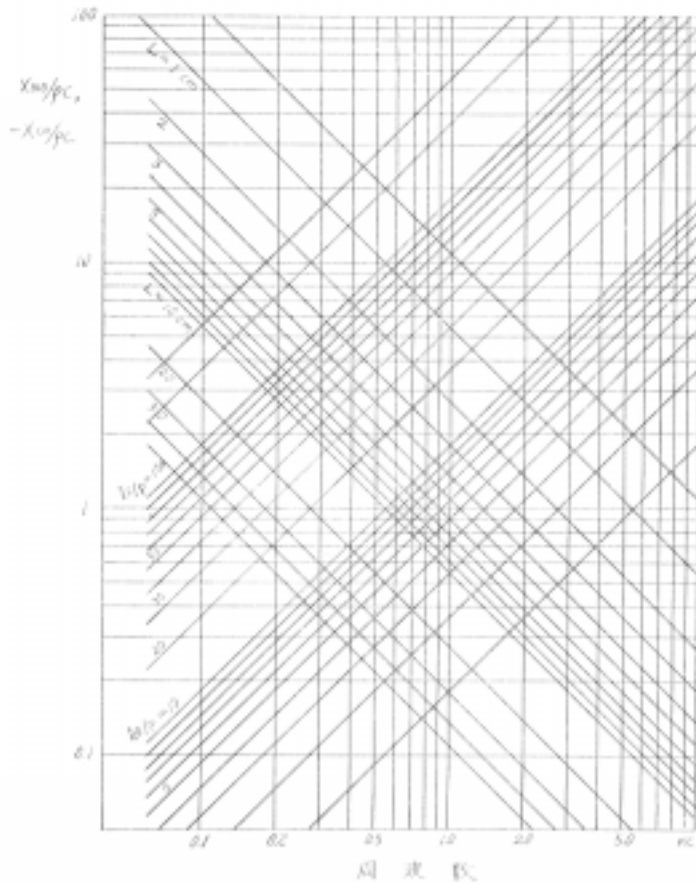
13



14

$$X_0 / \rho c = \frac{\omega l_e}{c\rho} - \frac{c}{\omega L}$$

L



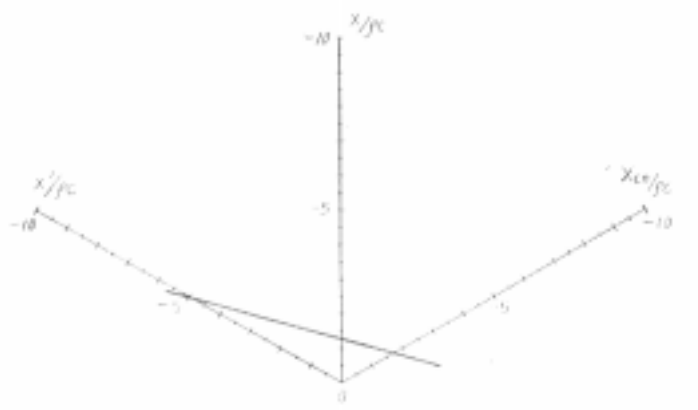
15

p

$$\begin{aligned} X_{m0} / \rho c &= \omega l_e / cp \\ X_{c0} / \rho c &= -c / \omega L \end{aligned}$$

$$\begin{aligned} X_{m0}, X_{c0} \\ L, l_e / p \end{aligned}$$

$$\begin{aligned} X_{c0} & \\ X' & \\ X & \end{aligned}$$



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$$\begin{aligned} X' / \rho c &= -5.0 \\ p &= \end{aligned}$$

$$0.078, l_e = 1.32 \text{ cm}$$

$$X_{m0} / \rho c = 1.3$$

$$\begin{aligned} X' \\ X_{c0} \\ X \\ X_{m0} = -X \end{aligned}$$

$$X' = \rho c = -$$

$$5.0, X / \rho c = -1.3$$

$$X_{c0} / \rho c$$

$$X_{c0} / \rho c = -1.7$$

$$X_{c0} / \rho c = -1.7$$

$$L =$$