

II ( )

9

-3 30

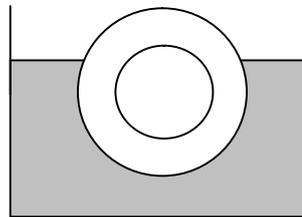
1

(  $V = \frac{4f R^3}{3}$  )

$R$   $r$ .

?

- R ,  
- r .



$m_1 -$  ,  $m -$  = 2 = (m<sub>1</sub> + m) / V

= [4/3 ( R<sup>3</sup> + r<sup>3</sup>( 1 - ) )] / (4/3 R<sup>3</sup>)

= ( R<sup>3</sup> + r<sup>3</sup>( 1 - ) ) / R<sup>3</sup> ( R<sup>3</sup> + r<sup>3</sup>( 1 - ) ) / R<sup>3</sup> = 2

= ( 2 - 1 ) R<sup>3</sup> / r<sup>3</sup> + 1

60  
40  
20

- 80.

2

R = 2000

$R_1 = -10 \cdot 10^{-3} - 1$   $R_2 = 2 \cdot 10^{-3} - 1$

R

R<sub>10</sub>, R<sub>20</sub> -  
R:

$R = R_1 + R_2$ ,  $R_1 = R_{10} (1 + 1 t)$   $R_2 = R_{20} (1 + 2 t)$   
t = 0 ° C.

$R = R_{10} + R_{20} + R_{10} 1 t + R_{20} 2 t$

$R = R_{10} + R_{20}$ ,  $R_{10} 1 + R_{20} 2 = 0$

$R_{10} 1 = -R_{20} 2$   $R_{10} = -R_{20} 2 / 1$

$R = R_{20} (1 - 2 / 1)$ ,  $R_{20} = R 1 / ( 1 - 2 ) = 1667$

$R_{10} = 333$

- 60.

50  
30

15

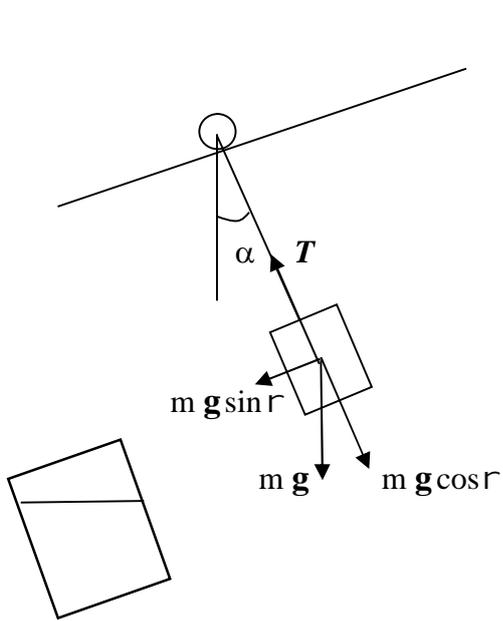
3

$\alpha$ ,

V,

R.

?



$mg$   
 $mg \cos \alpha$ ,

$T = mg \sin \alpha$ ,

$= g \sin \alpha$ .

$= g \sin \alpha$ ,

$p = F / S$

$F = mg \cos \alpha$   $S = \pi R^2$   $m = \rho V$

$p = \rho V g \cos \alpha / \pi R^2$

- 80.

60  
40

20

4

= 30%.

$N = 5$  ,  
 $m = 100$  ?

$t = 20^{\circ} C$

500 .

Q

$Q = y N \dagger$

:

$$Q_1 = c \Delta t_1 m$$

$$Q_2 = c \Delta t_1 M$$

$$Q_3 = r m$$

:

$$Q = Q_1 + Q_2 + Q_3$$

$$y N \ddagger = c \Delta t_1 m + c \Delta t_1 M + r m$$

$$\ddagger = \frac{c \Delta t_1 m + c \Delta t_1 M + r m}{y N} = 622$$

- 80.

70

20

15

5

=14,7

= 1,274

1

2

=9,8 / 2

$$m_1 = 19,3 \cdot 10^3 / 3 \quad m_2 = 10,5 \cdot 10^3 / 3$$

g

$$m_1 + m_2 = P/g$$

$$m_1 = P/g - m_2 \quad V_1 = m_1/\rho_1 \quad V_2 = m_2/\rho_2$$

$$V = (m_1 \rho_2 + m_2 \rho_1) / \rho_1 \rho_2$$

$$\Delta P = F_A = \rho g V \quad \Delta P = \rho g (m_1 \rho_2 + m_2 \rho_1) / \rho_1 \rho_2$$

$$\Delta P = \rho g \frac{m_2 \left( \frac{P}{g} - m_2 \right) + m_1 m_2}{m_1 m_2}$$

$$m_2 (\rho_1 - \rho_2) = \Delta P \rho_1 \rho_2 / \rho g - \rho_2 P/g$$

$$m_2 = \rho_2 (\Delta P \rho_1 - P \rho) / (\rho_1 - \rho_2) \rho g = 1,204 \quad m_1 = 1,5 - 1,204 = 0,296$$

-100.

$m_1 \quad m_2$ .

80

50

20