

報

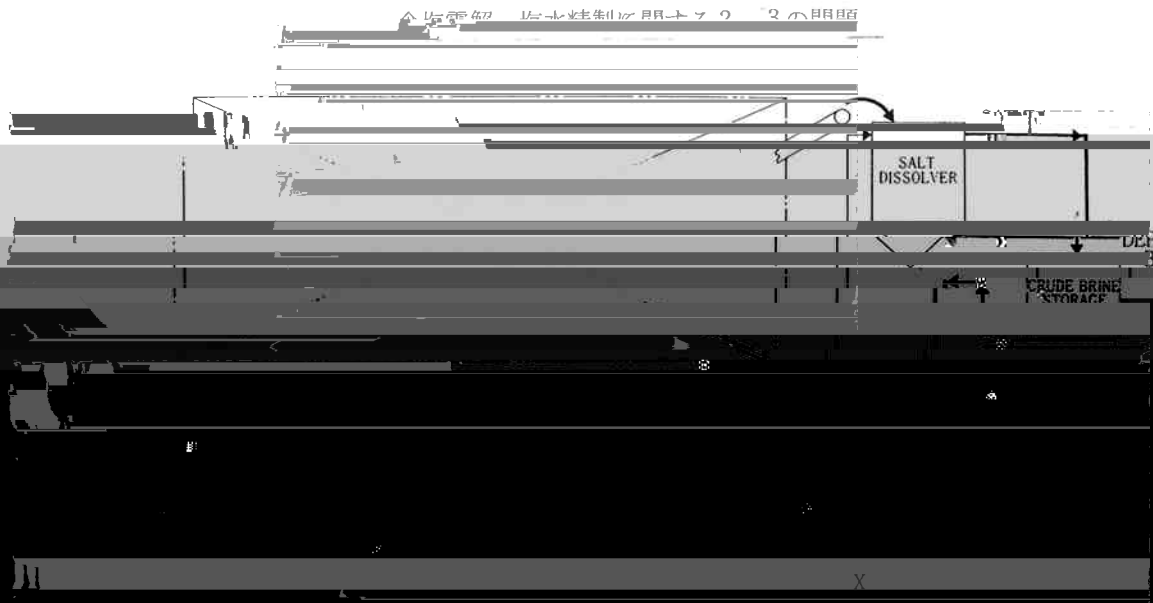
山 芳 雄

守 勝 一

辰 彦

久  
井

法としては隔膜法と水銀法とがあり、炭酸ソーダの製造



AS PER FIG. 2, 3

START (DEPLETED BRINE)

HYDROCHLORIC-ACID HEAD TANK  
pH CONTROL



Fig. 2





精製後の 100% 塩水 後 100% 塩水に 2 歩目の精製

Table 4

	Process A	Process B
	"complete"	"simple"
Yield (%)	100	100
Impurities removed		
Mg		
Ca		
H <sub>2</sub> O in washed salt		

Washed Brine Used 0.10M<sup>3</sup>/T-SALT 0.3M<sup>3</sup>/T-SALT

Impurities removed  
Mg  
Ca  
H<sub>2</sub>O in washed Salt

Variable	Mean	SD	Min	Max
Age (years)	25.51	1.77	20	30
Height (cm)	172.5	6.5	160	185
Weight (kg)	71.5	10.5	55	95
Body fat (%)	12.5	2.5	8	18
Maximal heart rate (b·min <sup>-1</sup> )	185	10	170	200
Maximal oxygen uptake (l·min <sup>-1</sup> )	3.8	0.2	3.2	4.5
Maximal power (W)	1200	150	900	1500
Maximal force (N)	2800	300	2200	3500
Maximal velocity (m·s <sup>-1</sup> )	4.9	0.3	4.2	5.8
Maximal acceleration (m·s <sup>-2</sup> )	28	4	20	35
Maximal force-velocity (N·m·s <sup>-1</sup> )	14000	1500	11000	18000
Maximal force-acceleration (N·m·s <sup>-2</sup> )	40000	4000	30000	50000
Maximal velocity-acceleration (m·s <sup>-3</sup> )	4	0.5	3	5

Statistical analysis

Results

Variable	Mean	SD	Min	Max
Age (years)	25.51	1.77	20	30
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Discussion

Conclusion

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Table 7  
Materials

304
8.3
12
4

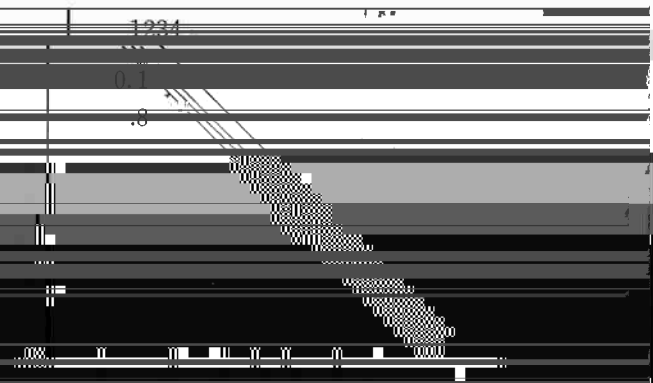
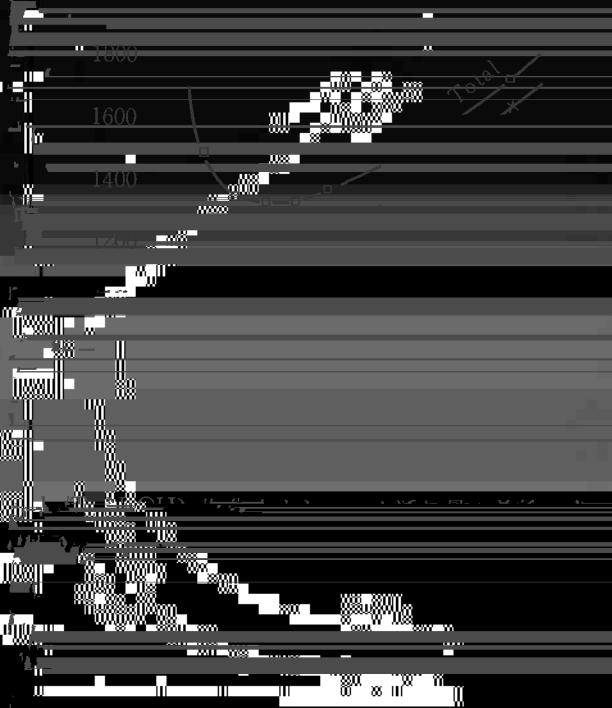
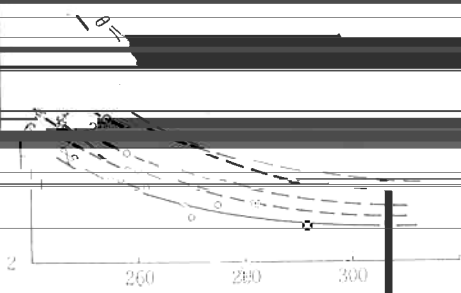


Fig. 7. Theoretical  $\rho_c$  vs.  $\rho_{total}$  curves.



with  $SO_2$  content



Investment

1.1-1.2 ( 2) 10x1 15x1 20x1 30x1

Investment

0.898 7.250 0.100 0.010

6.50 → 10.50 2 (3.5 2)

running cost

(¥1000/Year)

0.00 1.026 1.166 1.401

(0.5 0)

$$u = \frac{D_0 \cdot 4S \cdot 4\pi}{lRT}$$

$$u = \frac{D_0^2 \cdot 4S \cdot 4\pi}{4lRT}$$

(2)

$$3v(C_{n'} - C_{\infty'})^2 \cdot D$$

$$\alpha = \frac{K_0 - K}{K_0 - K_{\infty}}$$

(2)

$$dK = \frac{3v(K_0 - K_{\infty})^2 D}{\alpha^2(1-\alpha)^2} d\alpha$$

(2)

(2)



$$J = -D \cdot \frac{dC}{dx} + C' \bar{u}$$

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$K_0$  :

$K_{\infty}$  :

$K_p$  :

$k$  :

$M$  :

$N$  :

$R$  :

$T$  :

$\Delta S$  :

$\Delta T$  :

$u$  :

$v$  :

$V$  :

$V_c$  :

カク、カク+キカ相対あかへス、レけできないがろ。

添解積

添解積