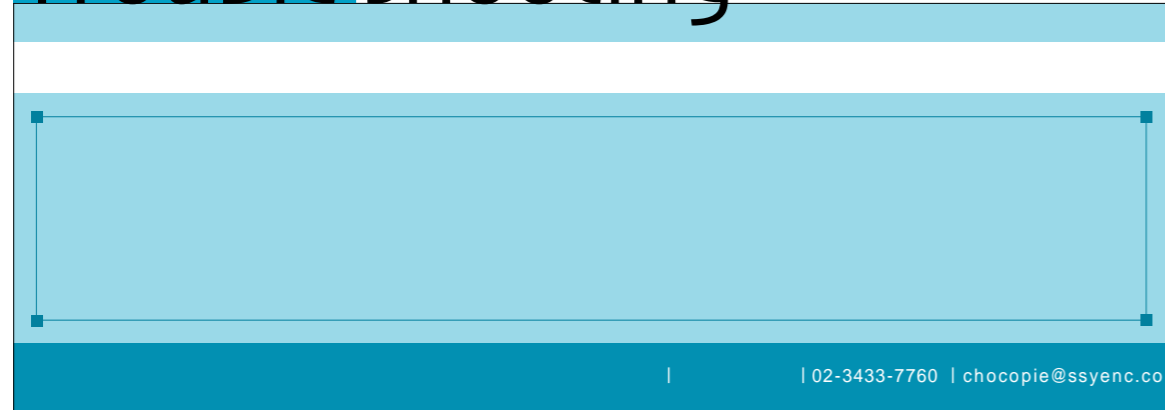


Trouble shooting



| 02-3433-7760 | chocopie@ssyenc.co.

1.

2.

7.4 Miyagi-ken-oki(Ofunato)

7.9 Tokachi-oki(Hachinohe)

가

가

mean-square) 가

RMS (root-

, Fourier

2.1

5.3~7.9 28

FFT

가

가

5.3~7.9 28

가

<http://db.cosmos-eq.org>

< 1 >

[1] (COSMOS Virtual Data Center, 1999)		
	(M)	()
Lytle Creek	5.3(M)	Southern California(1970)
Nahanni	5.4(M)	Canada Northwest(1985)
Coaling Ca aftershock	5.4(M)	Mexico(1983)
Spitak	5.4(M)	Armenia(1990)
Coyote Lake	5.7(M)	Northern California(1979)
Spitak Aftershock	5.7(M)	Armenia(1998)
Hiyoshi	6.3(MMA)	Japan(1997)
Valparaiso Chile Aftershock	6.3(M)	South America(1985)
Victoria Mexico	6.4(M)	Mexico(1980)
Baja California	6.4(M)	Mexico(1934)
Big Bear*	6.4(M)	Southern California(1992)
Mikawa	6.4(M)	Japan(2001)
Long Beach	6.5(M)	Southern California(1933)
Coalinga	6.5(M)	Mexico(1983)
Imperial Valley	6.5(M)	Southern California(1979)
San Fernando*	6.6(M)	Southern California(1971)
Cape Mendocino	6.6(M)	Northern California(1992)
El Salvador*	6.6(M)	Central America(2001)
Northridge*	6.7(M)	Southern California(1994)
Nisqually	6.8(M)	Pacific Northwest(2001)
Landers	7.3(M)	Southern California(1992)
Kocaeli Turkey	7.4(M)	Turkey(1998)
Miyagi-ken-oki (Ofunato)*	7.4(MMA)	Japan(1978)
Limon Costa Rica	7.5(M)	Central America(1991)
Taiwan	7.6(M)	Taiwan(1999)
El Salvador	7.6(M)	Central America(2001)
Valparaiso Chile	7.8(M)	South America(1985)
Tokachi-oki (Hachinohe)*	7.9(MMA)	Japan(1968)

Jennings(1988B) (1)

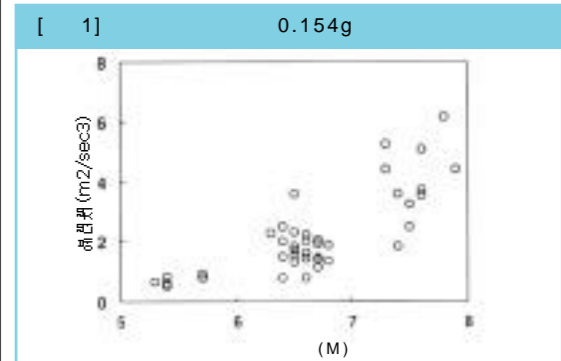
$$TE(t) = \int [a(t)]dt \quad (1)$$

, TE(t) : t

a(t) : 가
(1997)

[2] (, 1997)			
		가	
50		0.044g	0.028g
100		0.063g	0.040g
200		0.080g	0.051g
500		0.110g	0.070g
1000		0.154g	0.119g
2400		0.220g	0.140g

0.154g (1) 가 가

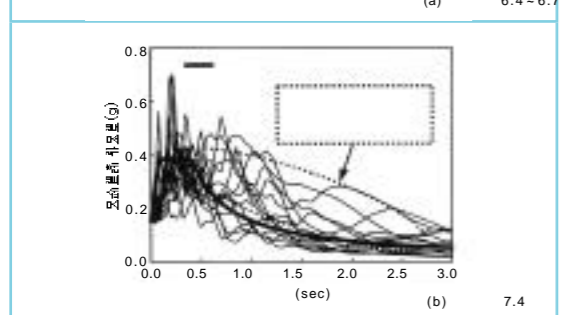
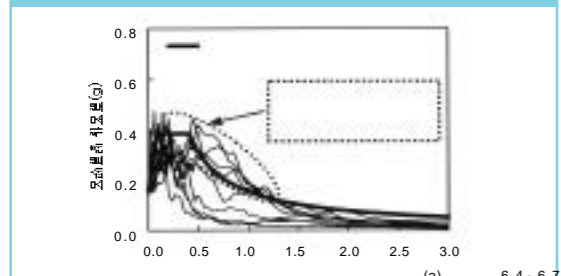


2.2 가 가 (S)

Trouble shooting

가
[2] 0.154g
가
6.4 ~ 6.7
7.4
[2] 7.4
가
가
[2] 6.4 ~ 6.7
가
(
0.154g)
[2] (b) 7.4 가

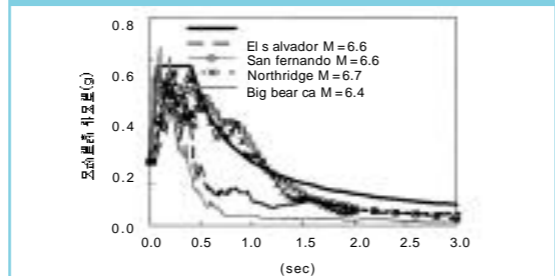
[2] 가 (0.154g)



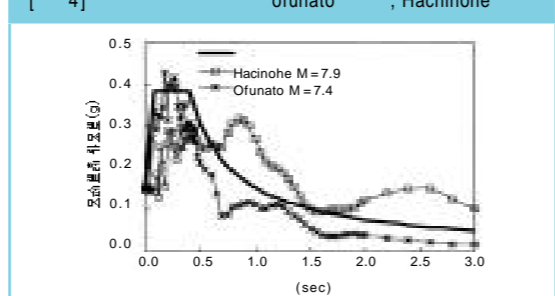
3.

6.4 ~ 6.7
3 4
(1999) 1
0.154
3.1
< 3>
[5]

[3] (0.154g)

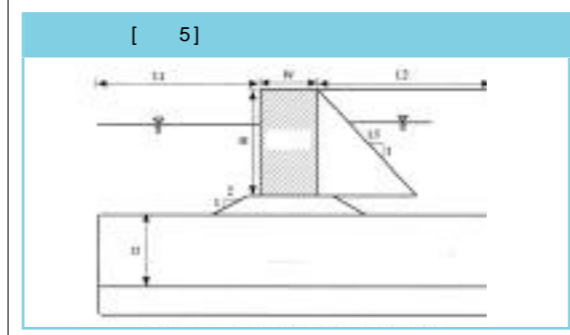


[4] ofunato, Hachinohe



[3]

(D)	H
	0.154g
(H)	12m
(W/H)	0.5, 0.7, 1.0
() N	6.4, 6.6, 6.7, 7.4, 7.9
	5, 15, 25



Mohr-Coulomb
(quiet boundary)
(free-field boundary)
[5]
(L1) L1 (H) 3
가 3H
(L2)
가 2
Stephen(1998) (L2)
2.5H
3.2
(2) (3)

(Handbook
on Liquefaction of Reclaimed Land, 1997)
(2)
(3)
(4)
 $G_{max} = 1440 N^{0.8} (tf/\bar{m})$ (2)
 $G_{max} = \frac{1}{g} V_s^2 (tf/\bar{m})$ (3)
 $K = \frac{2(1+v)}{3(1-2v)} G$ (4)
, Gmax , N
, , g 가 , Vs
, K , v , G
(3)
: Vs = 300 (m/sec)
: Vs = 225 (m/sec)
: Vs = 2000 (m/sec)
(2001)
가
30%
40%

