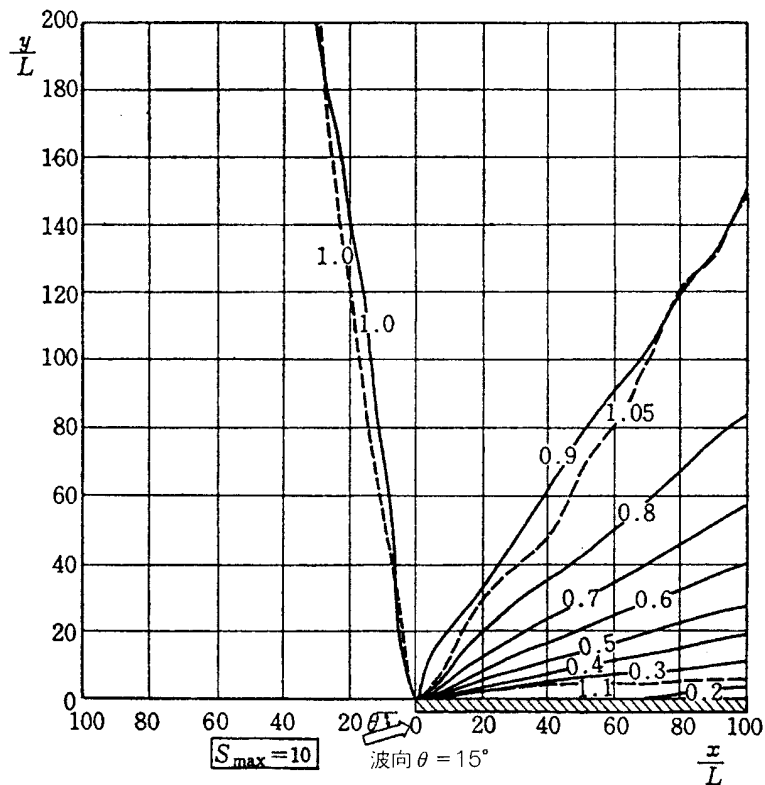
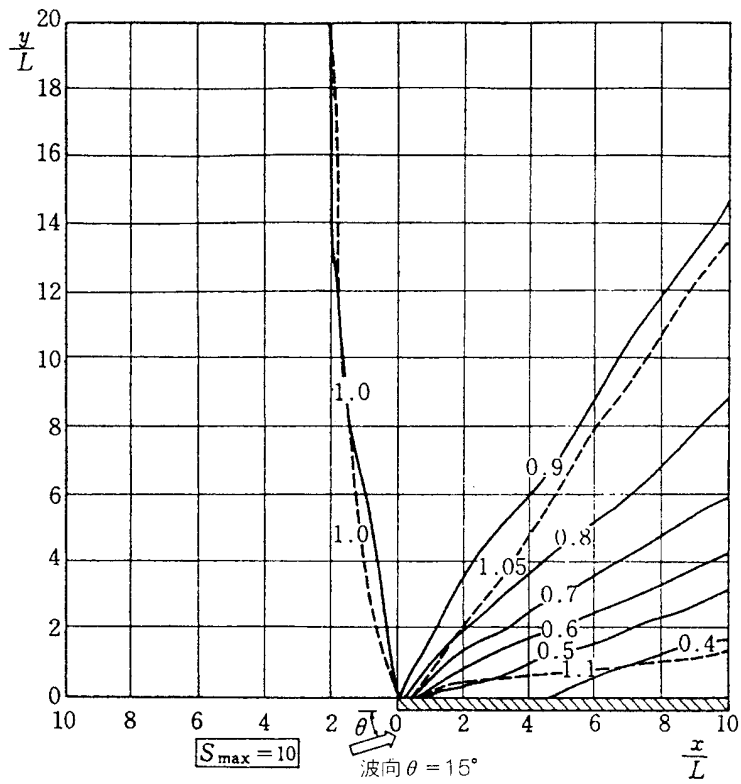
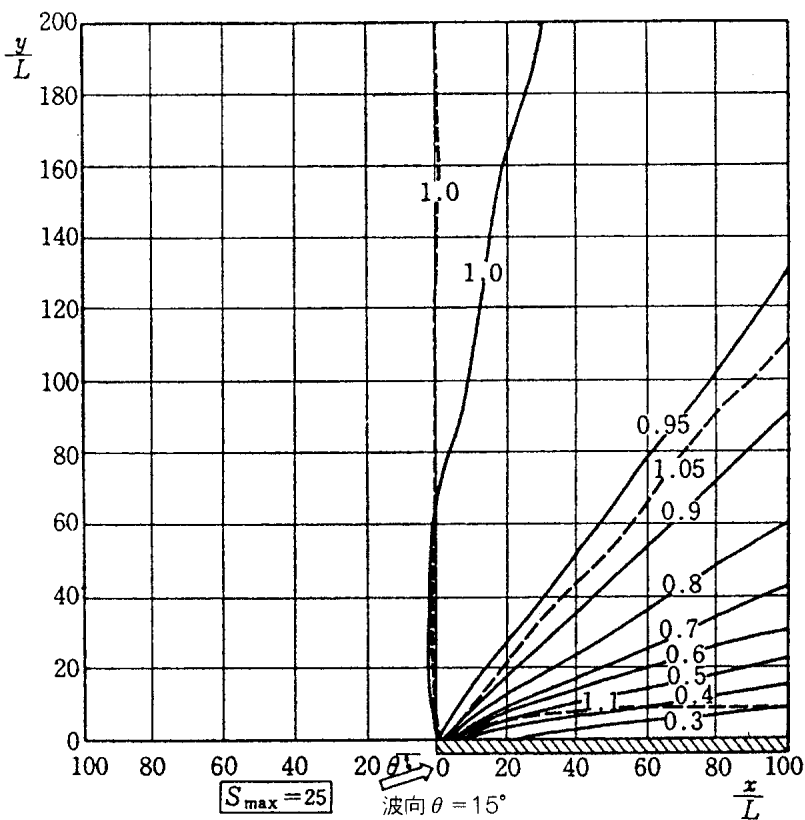
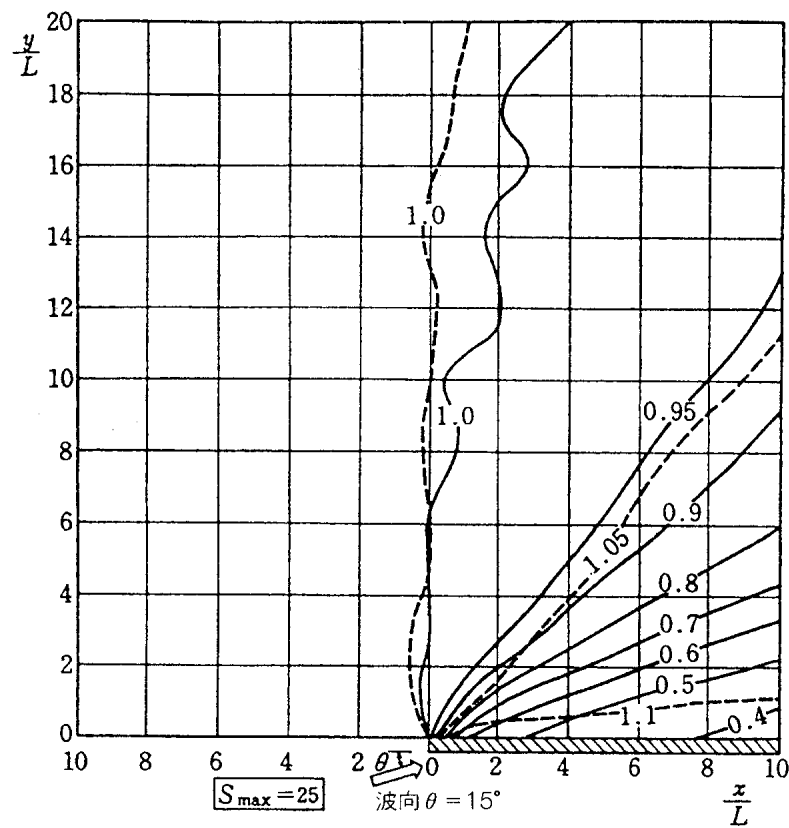
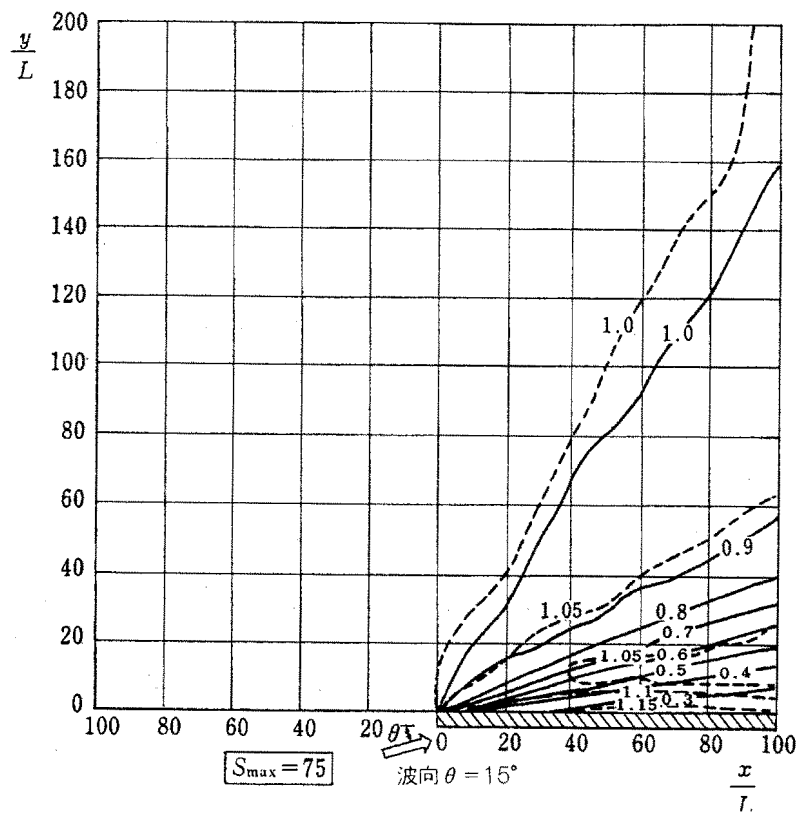
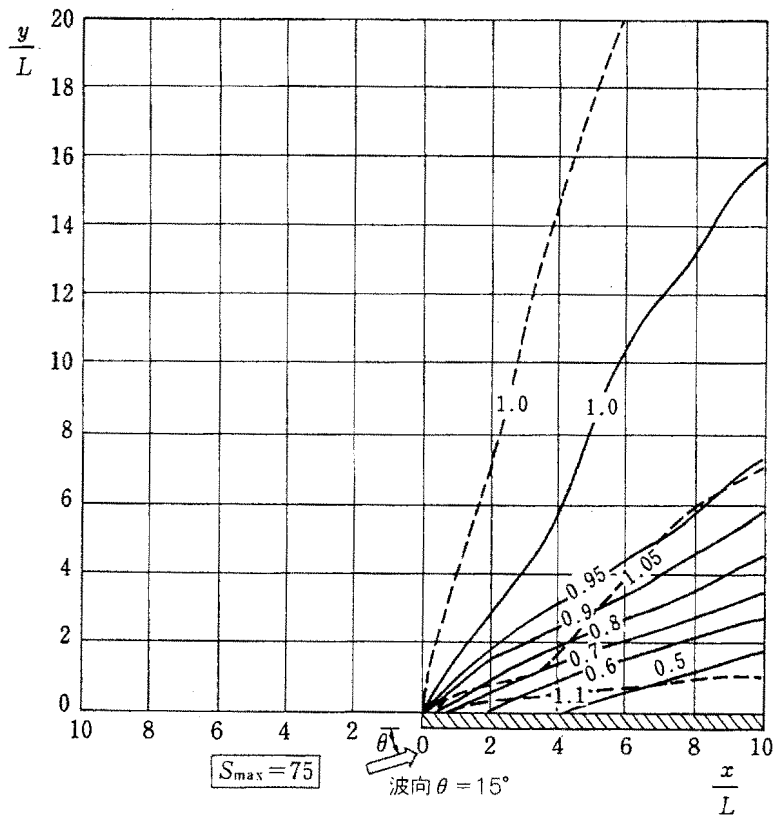


권말1. 파의 회절도

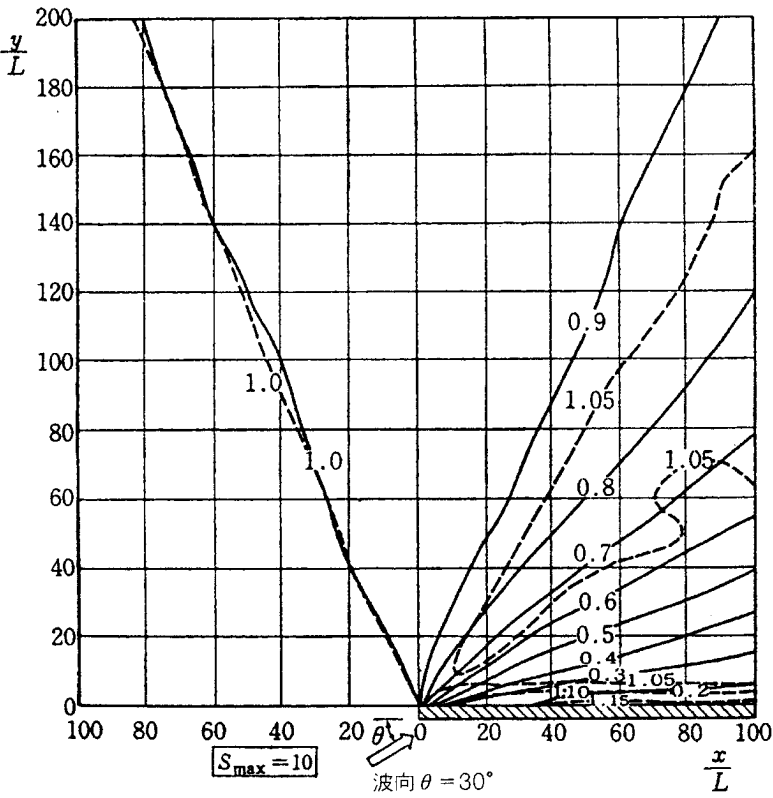
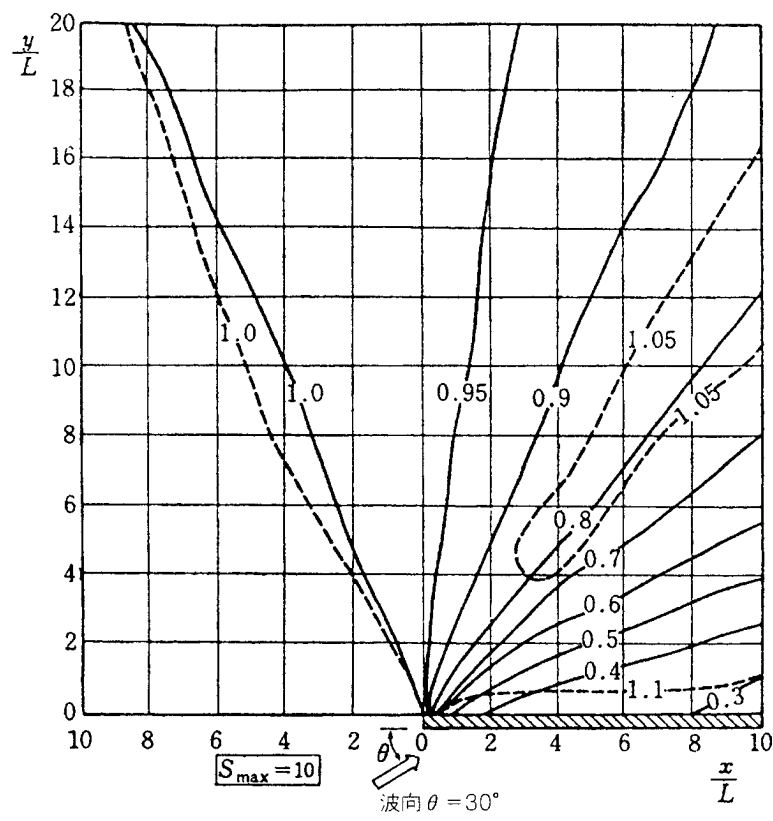
(a) $S_{\max} = 10$ 도2-1 반무한제에 의한 회절도($\theta=15^\circ$)

(b) $S_{\max} = 25$

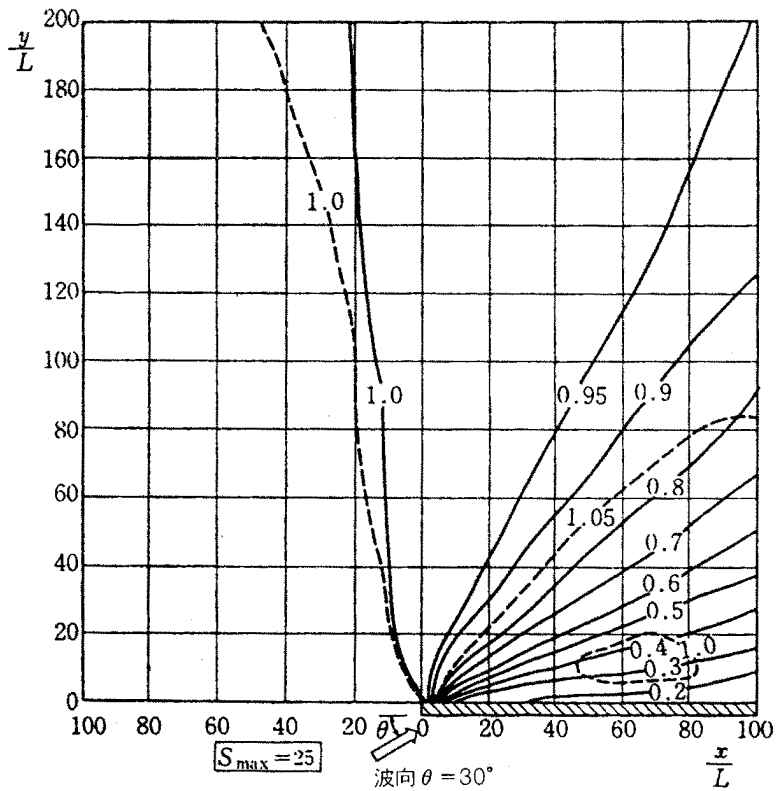
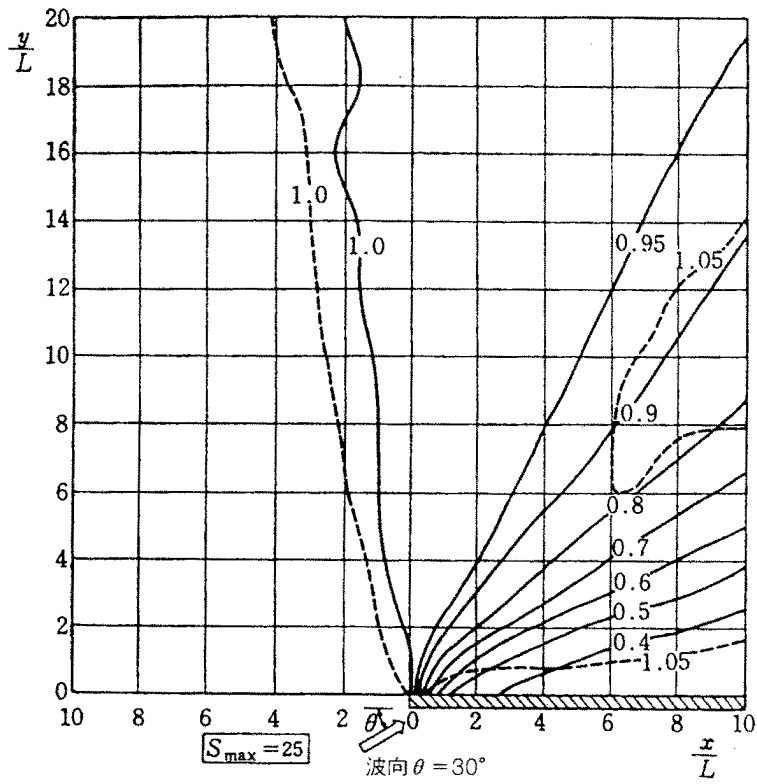


(c) $S_{\max} = 75$ 

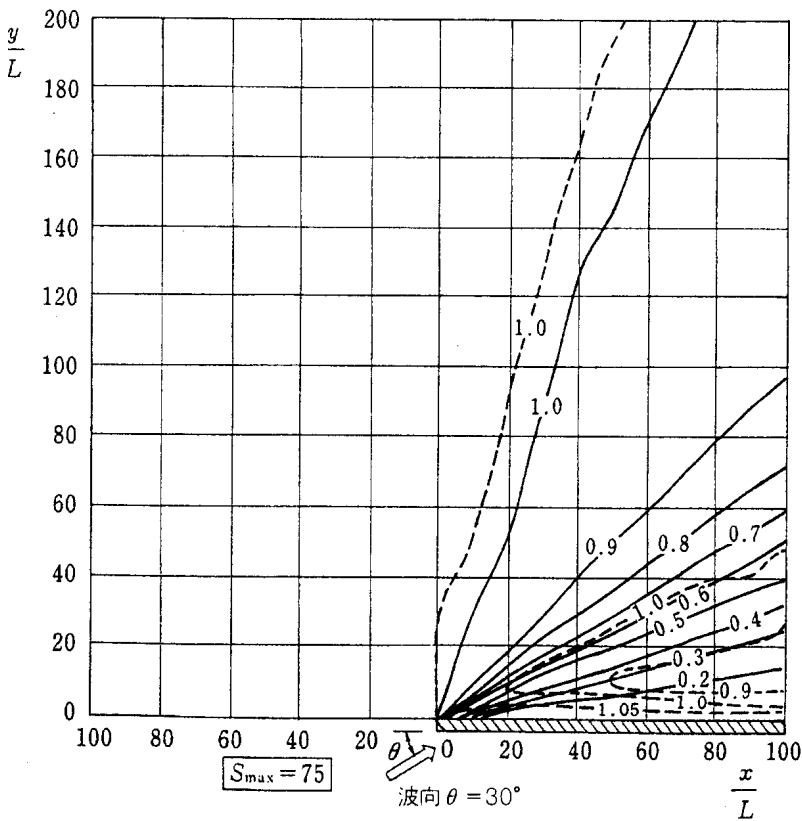
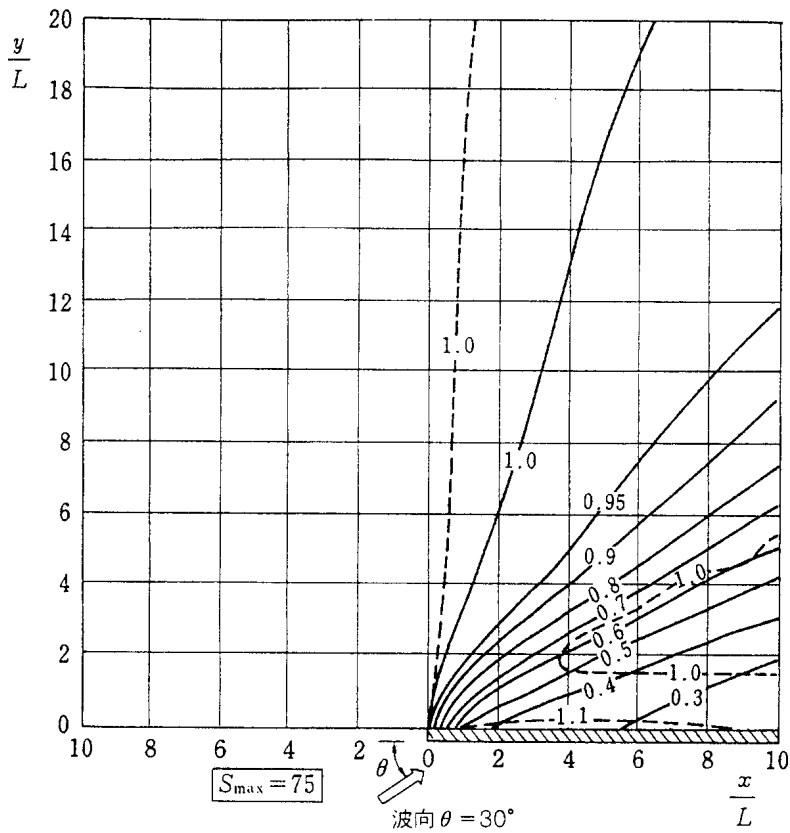
(a) $S_{\max} = 10$

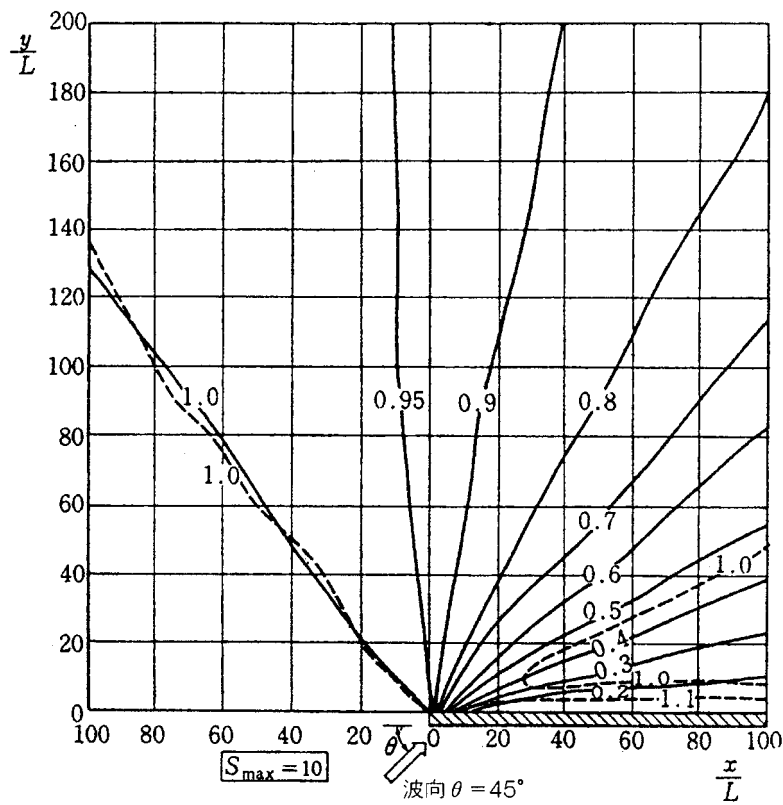
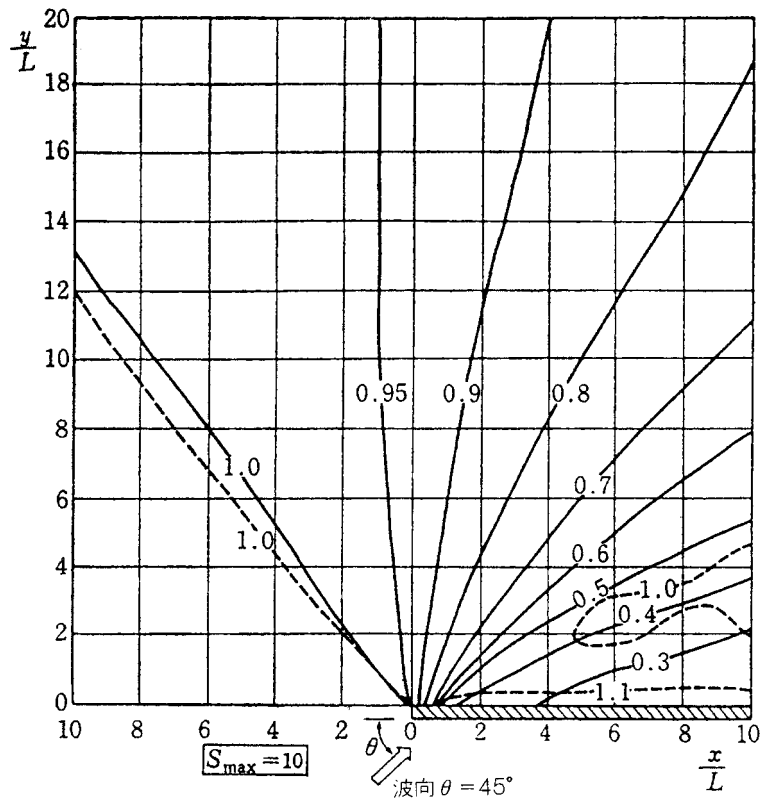


도2-2 반무한제에 의한 회절도($\theta=30^\circ$)

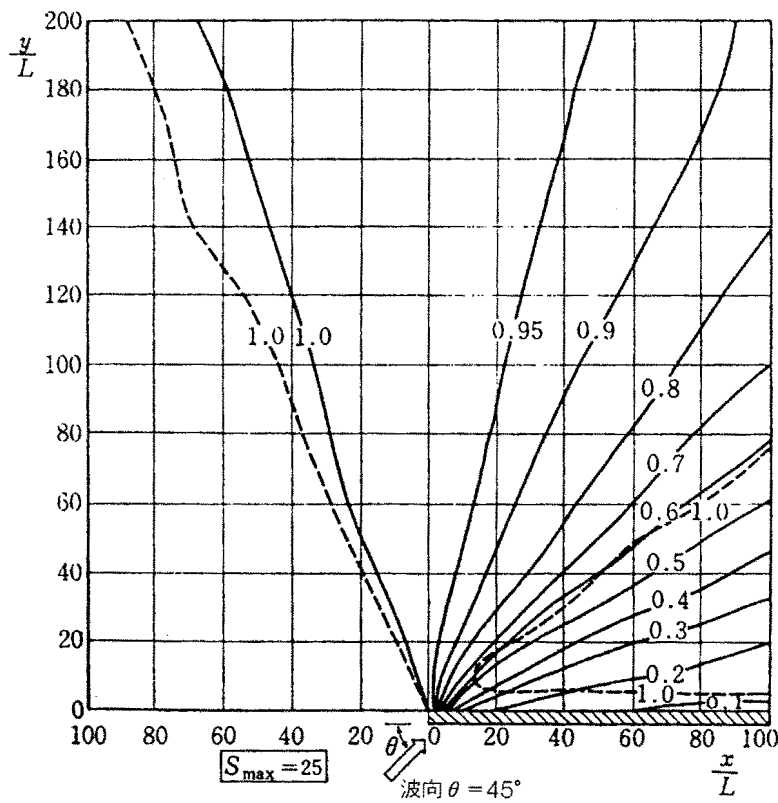
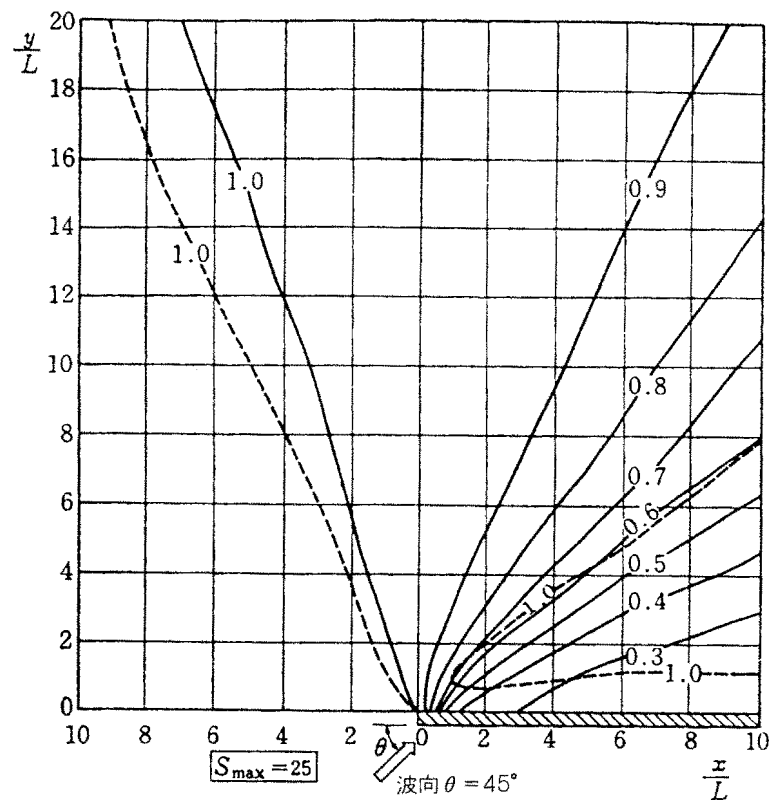
(b) $S_{\max} = 25$ 

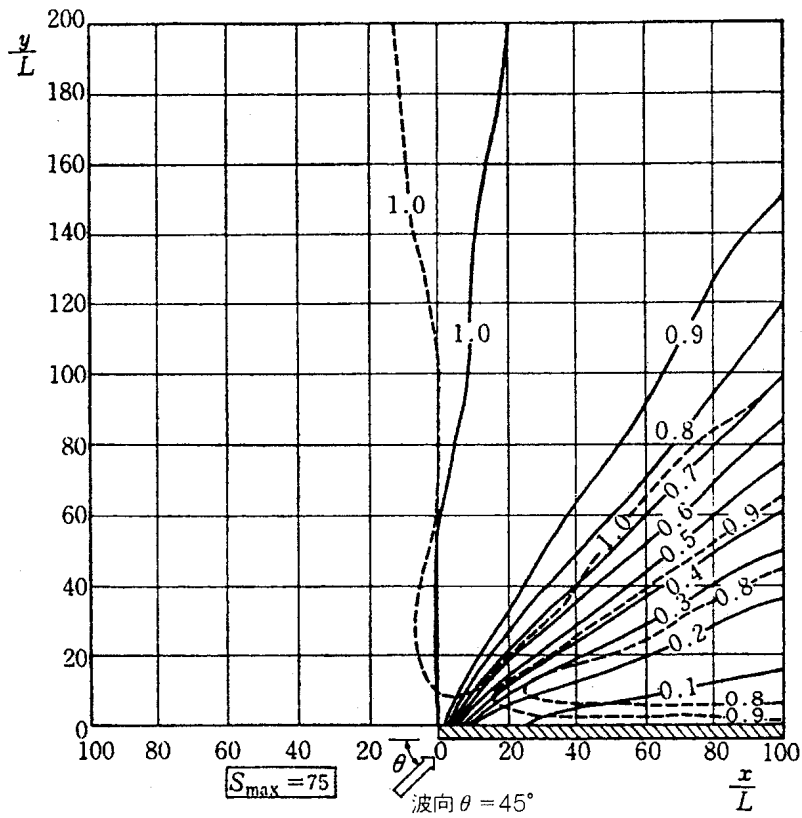
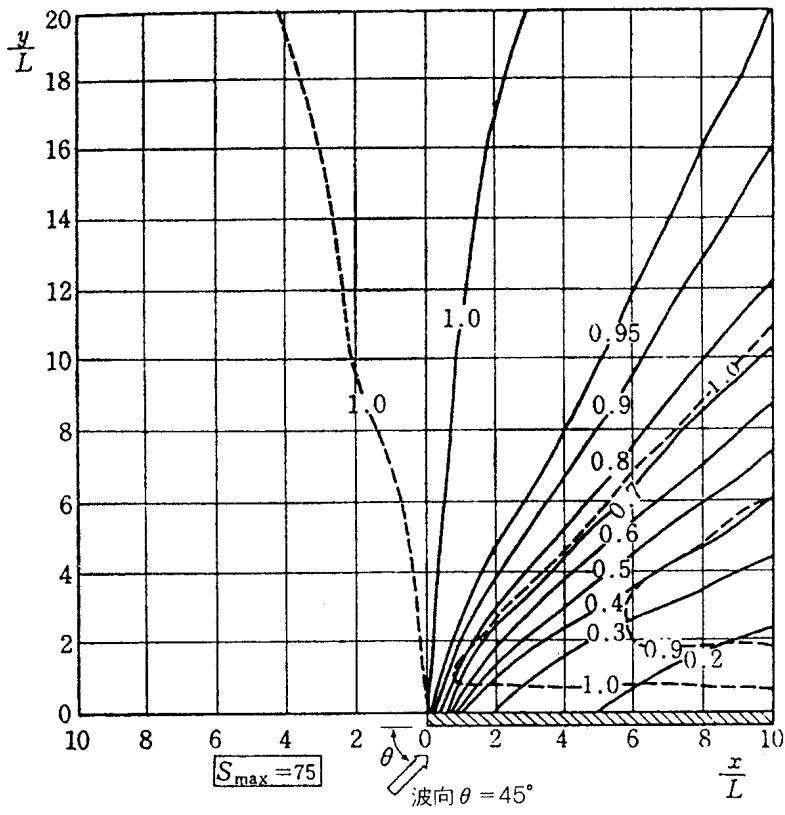
(c) $S_{\max} = 75$



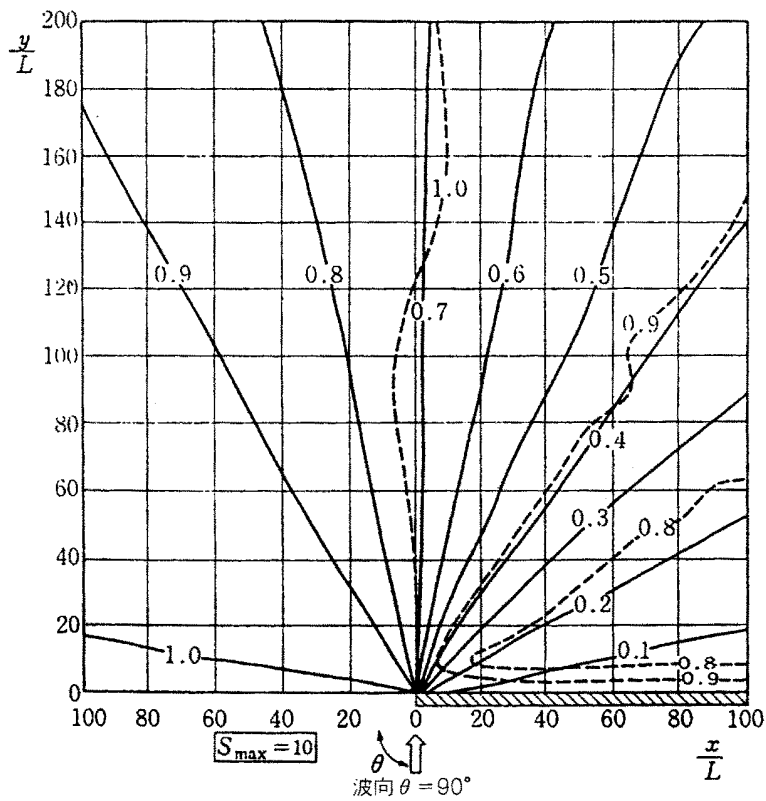
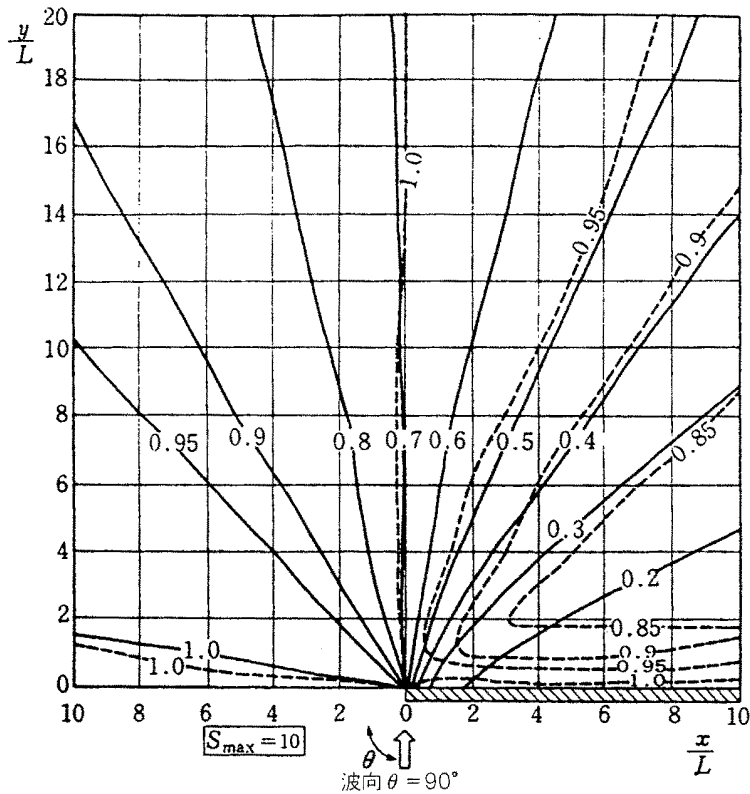
(a) $S_{\max} = 10$ 도2-3 반무한제에 의한 회절도($\theta=45^\circ$)

(b) $S_{\max} = 25$

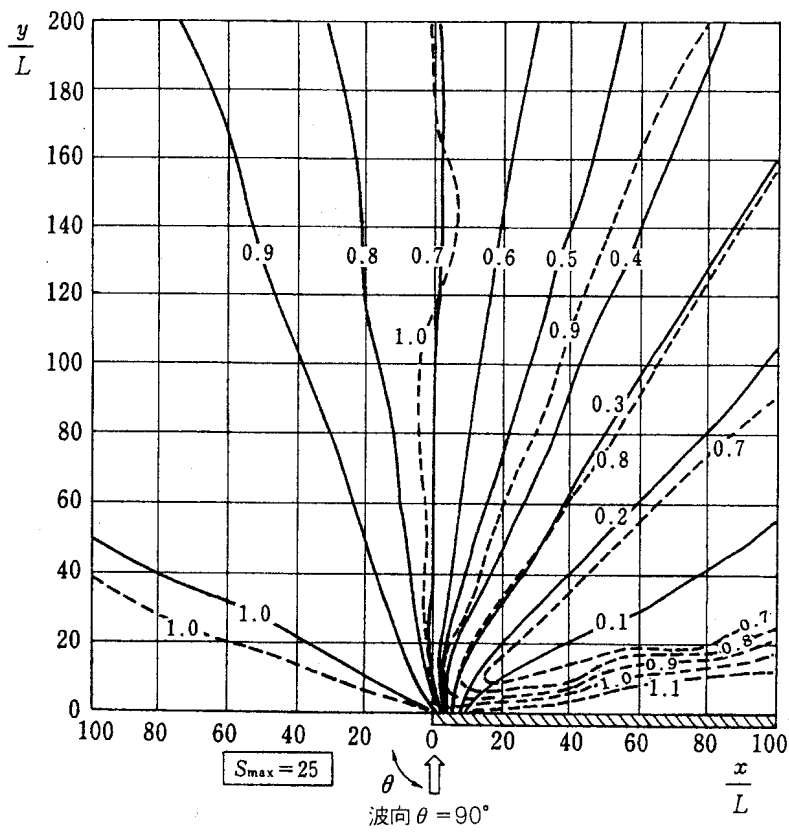
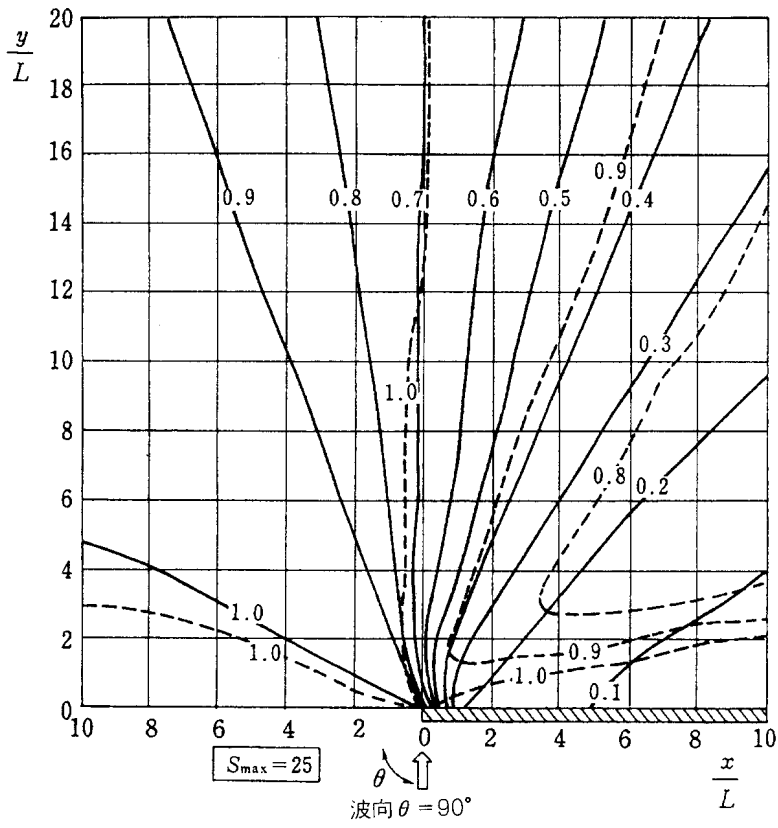


(c) $S_{\max} = 75$ 

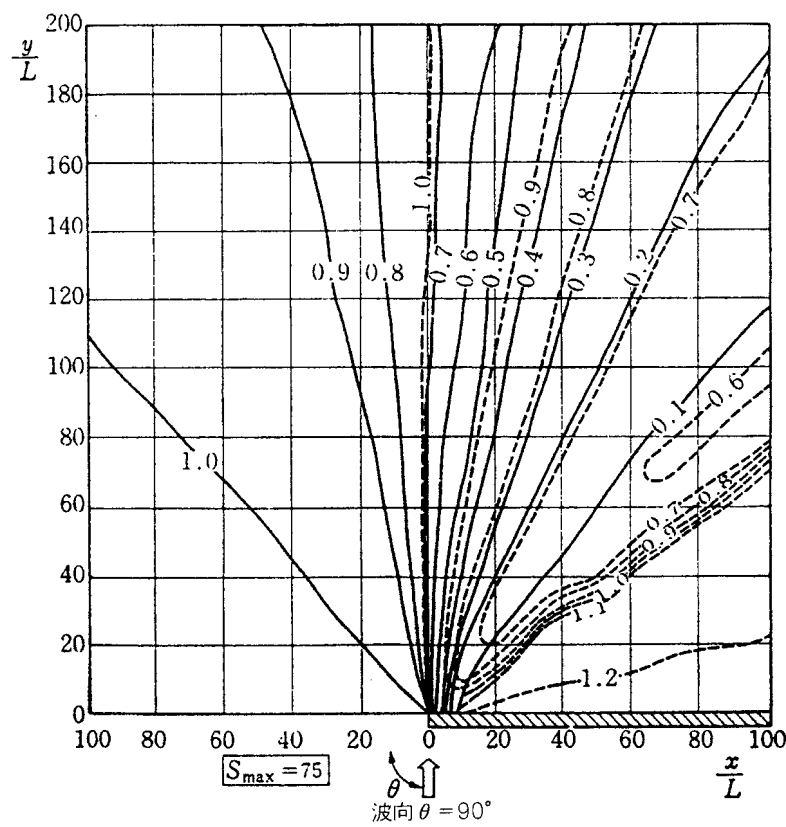
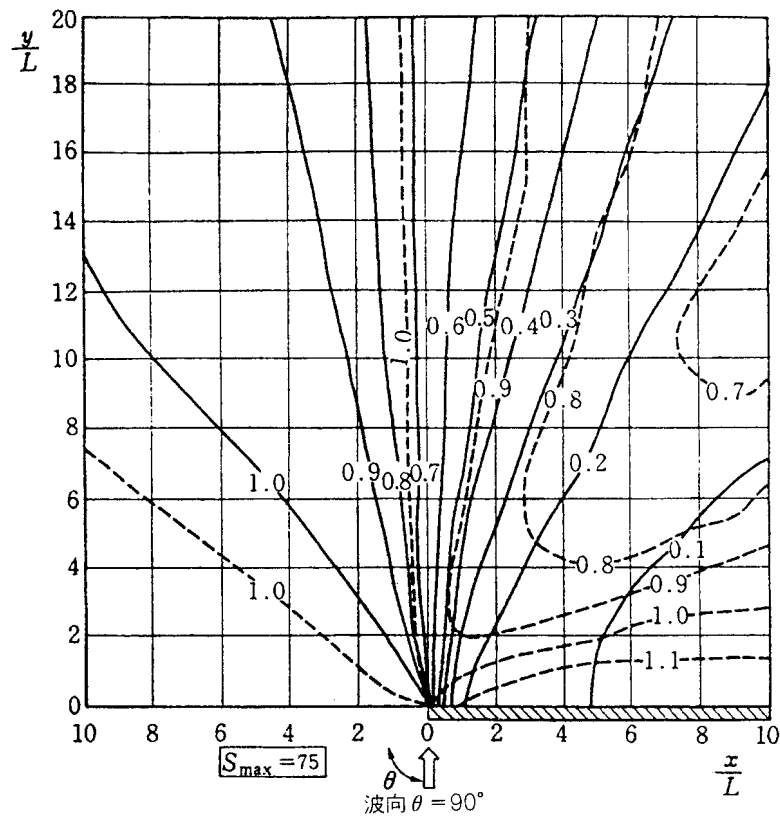
(a) $S_{\max} = 10$

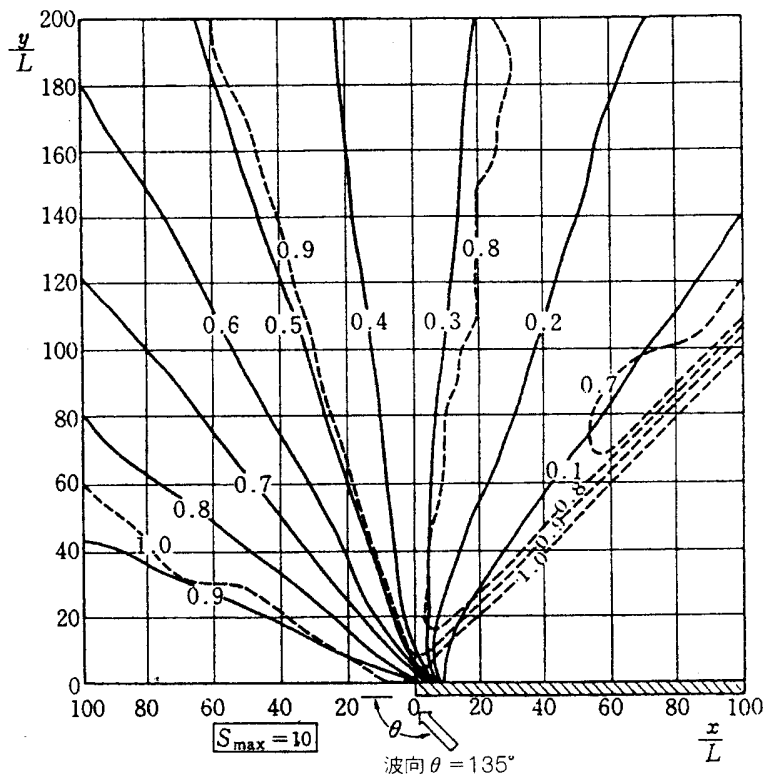
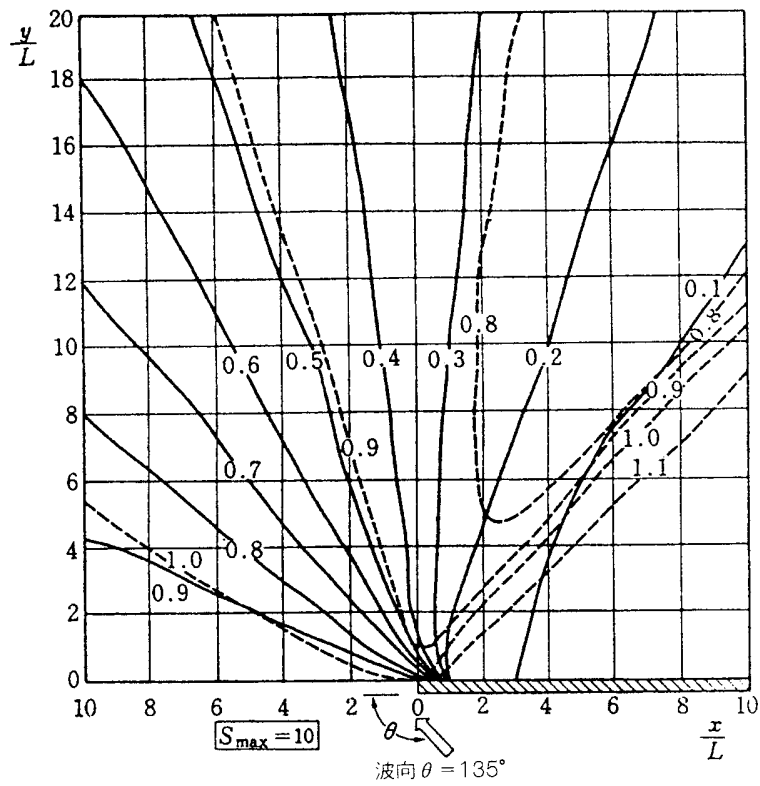


도2-4 반무한제에 의한 회절도($\theta=90^\circ$)

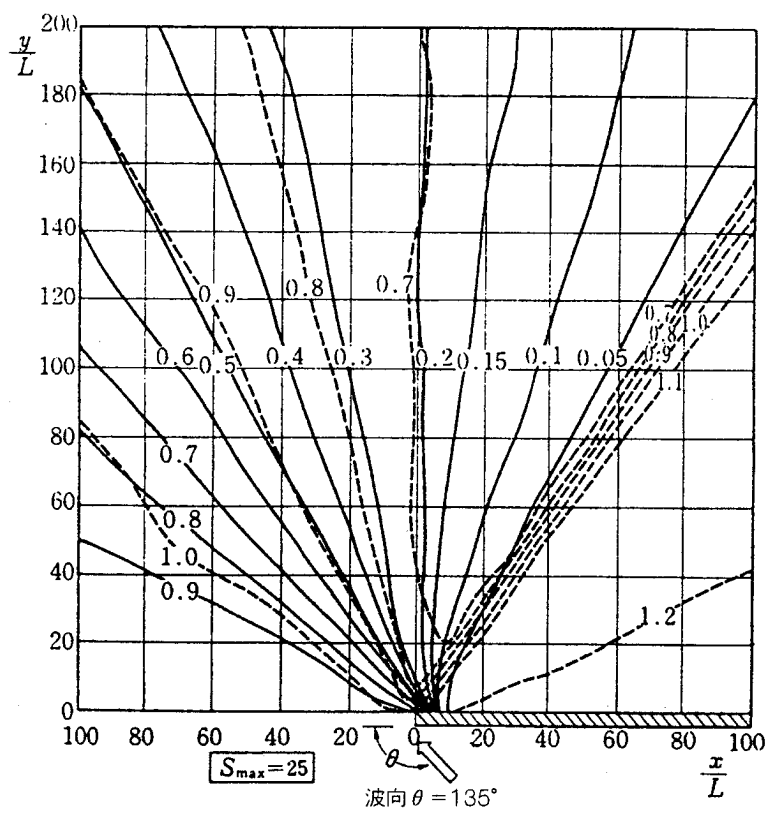
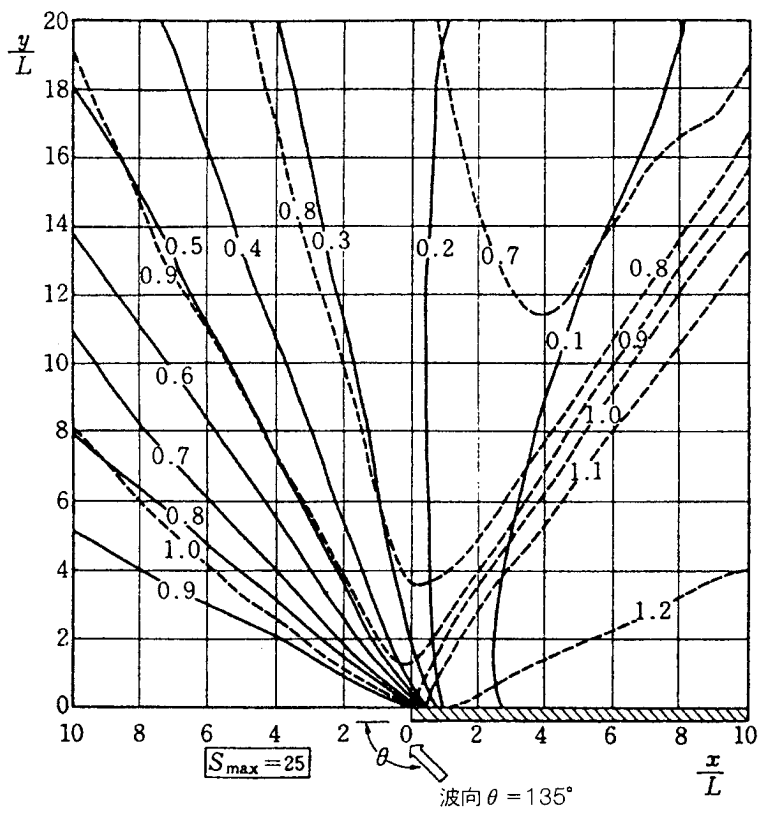
(b) $S_{\max} = 25$ 

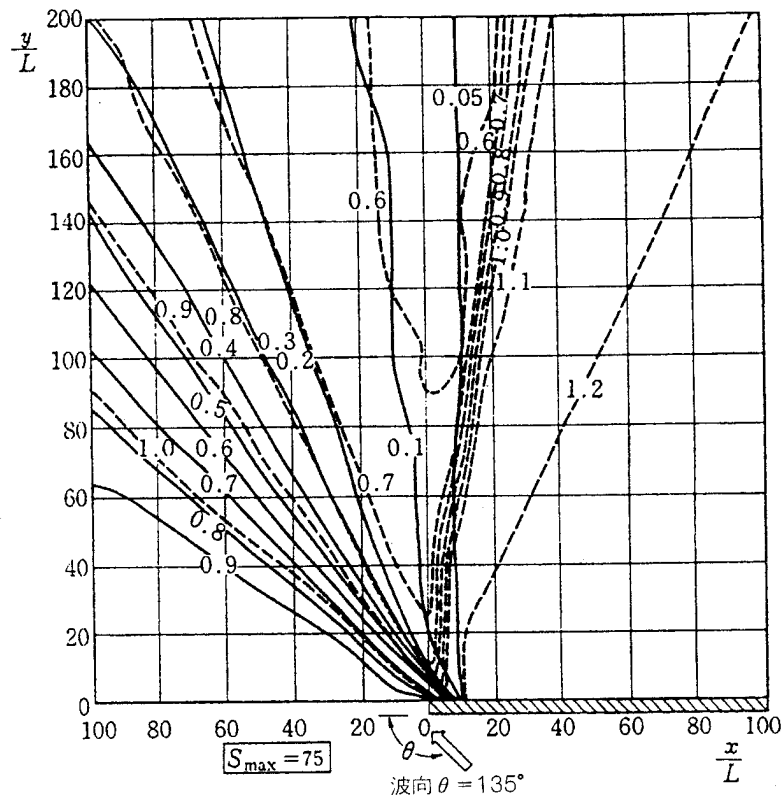
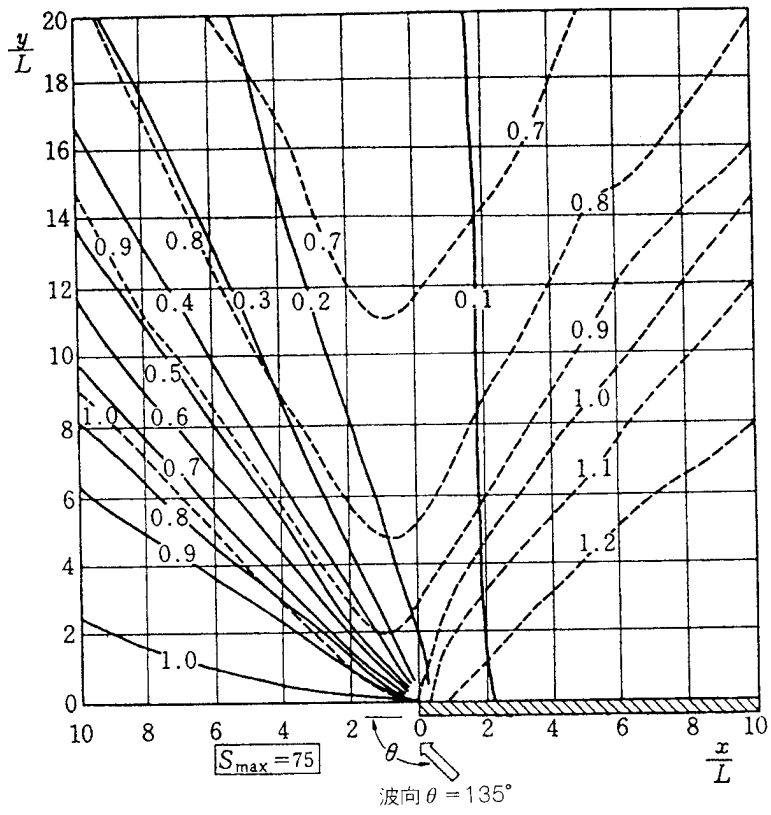
(c) $S_{\max} = 75$



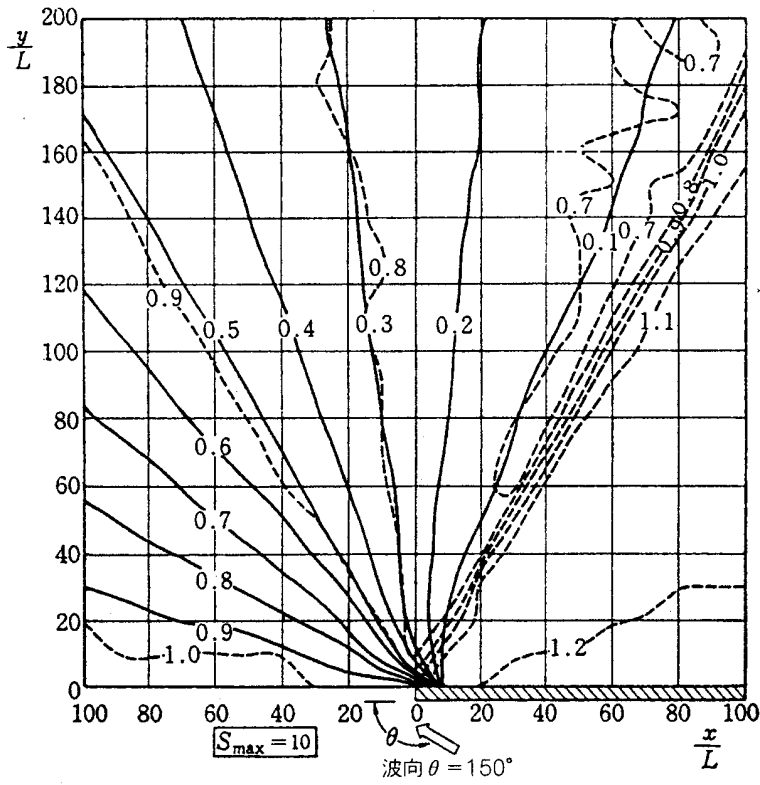
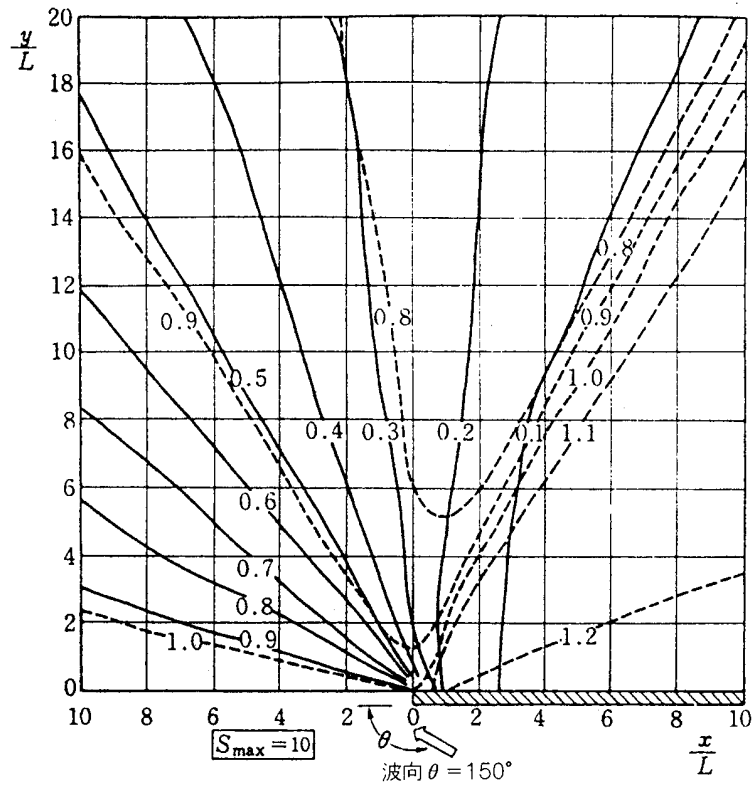
(a) $S_{\max} = 10$ 도2-5 반무한제에 의한 회절도($\theta=135^\circ$)

(b) $S_{\max} = 25$

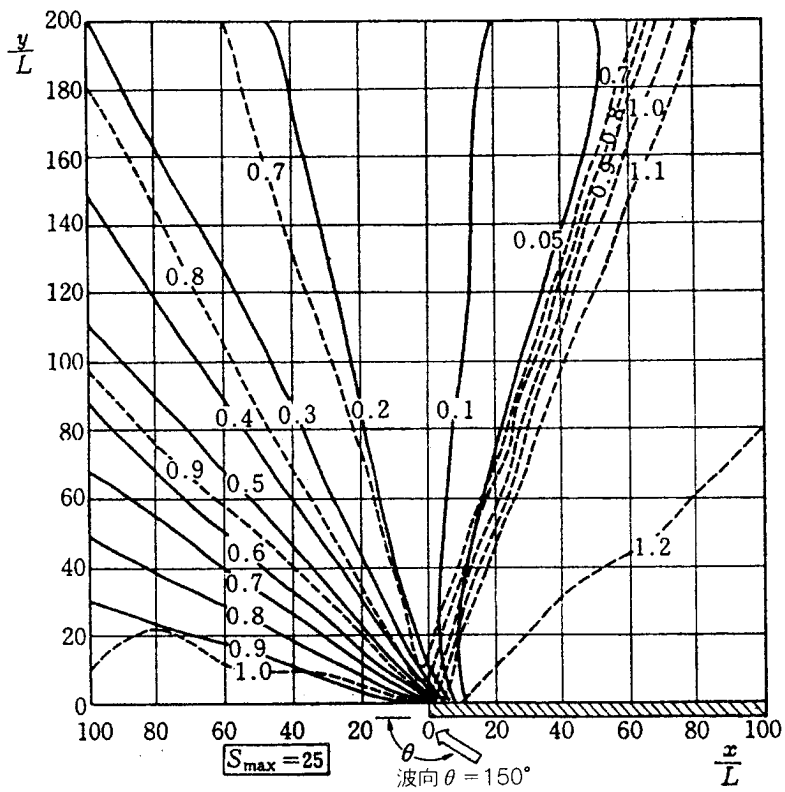
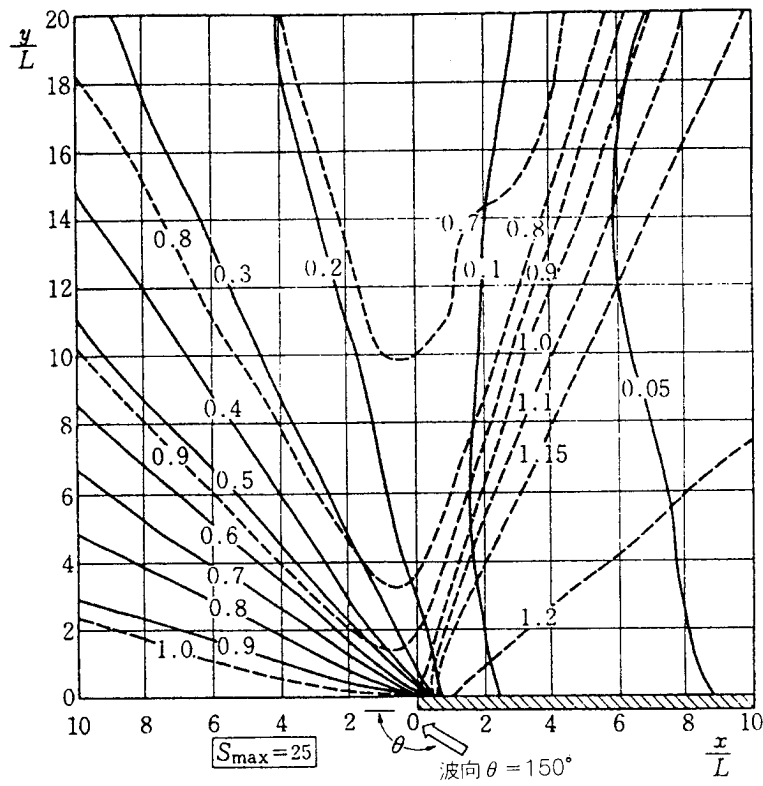


(c) $S_{\max} = 75$ 

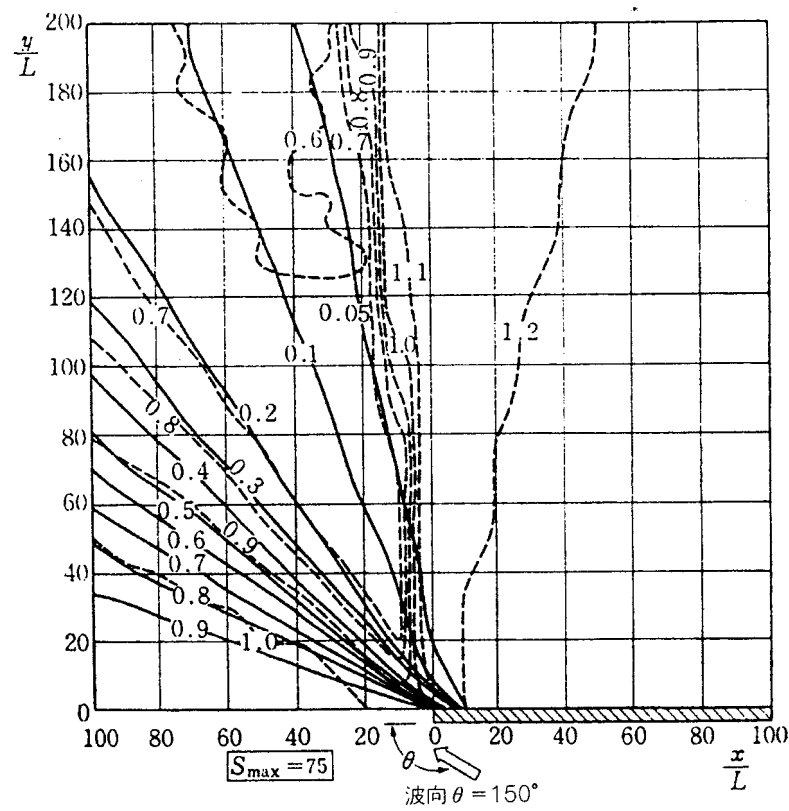
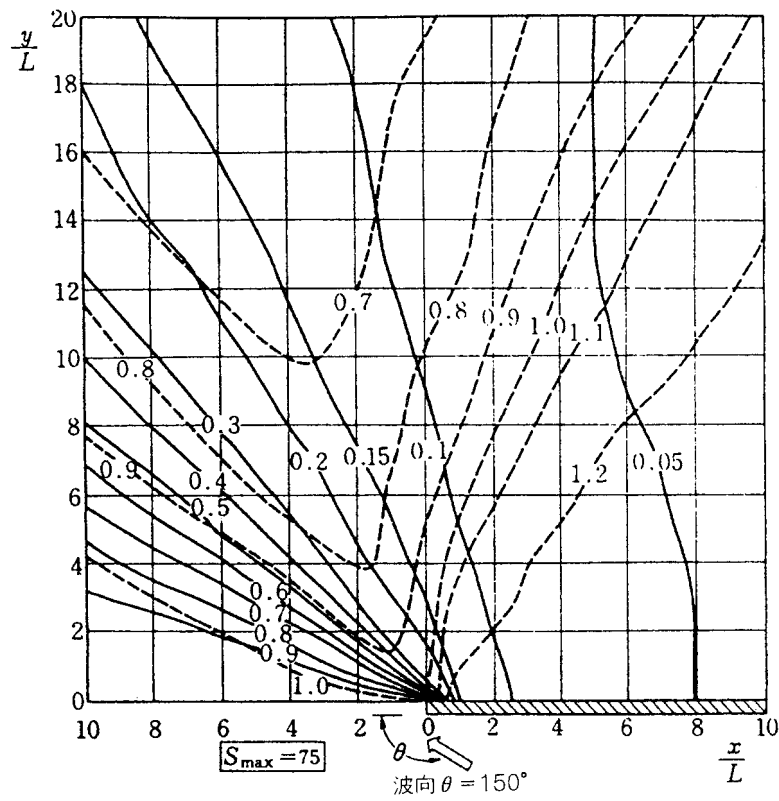
(a) $S_{\max} = 10$

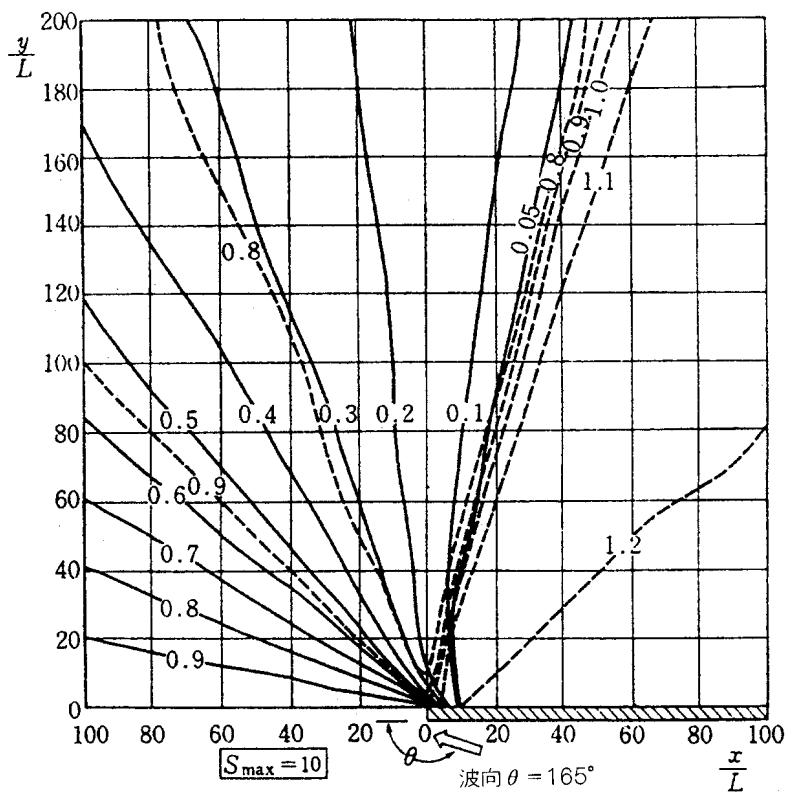
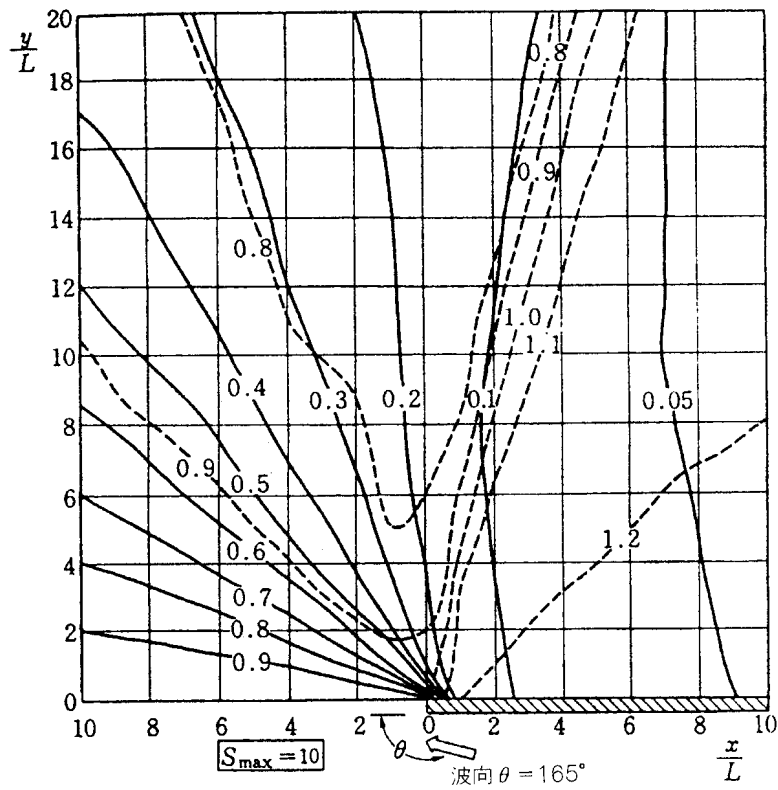


도2-6 반무한제에 의한 회절도($\theta=150^\circ$)

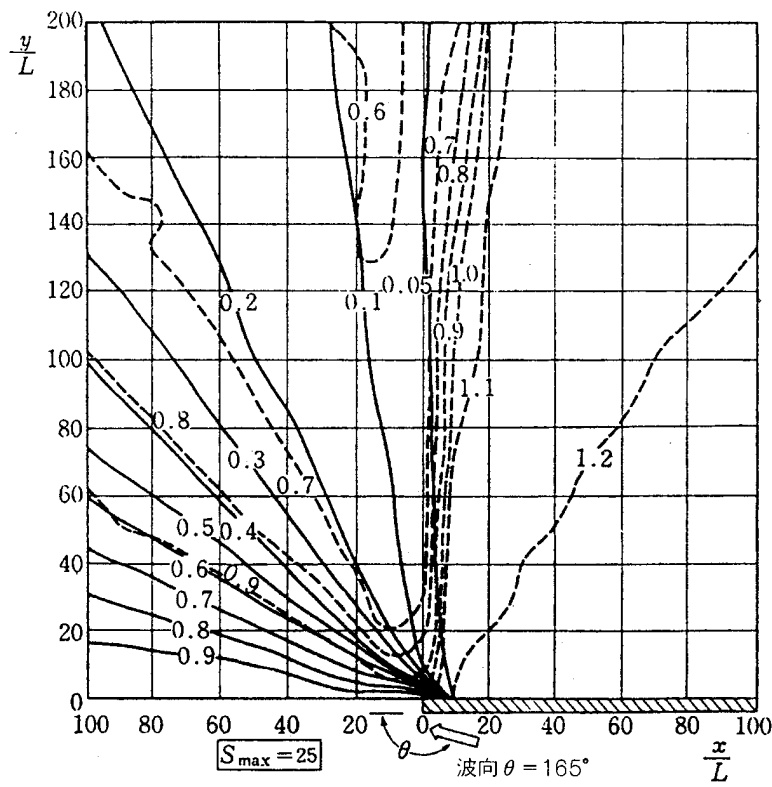
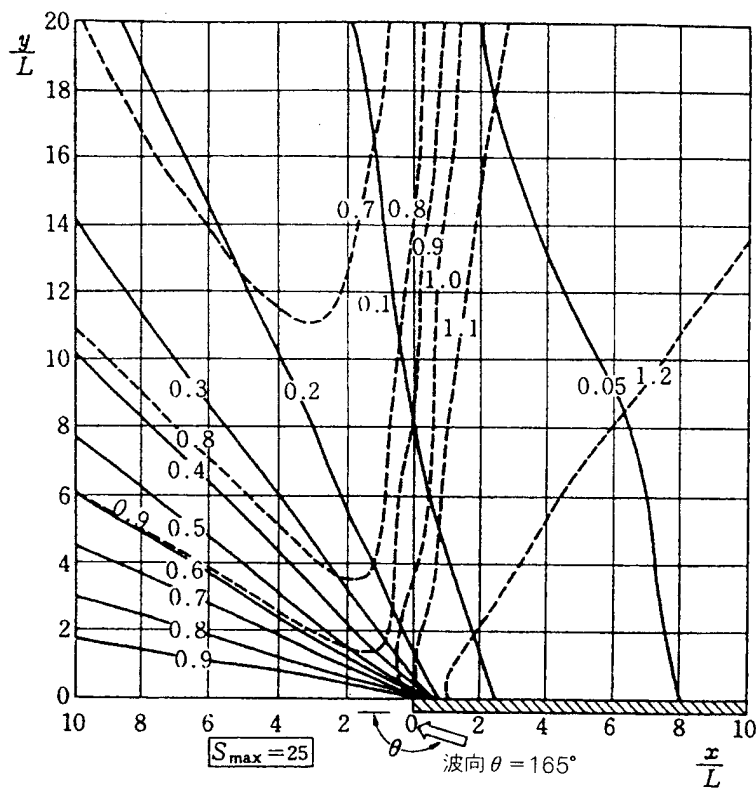
(b) $S_{\max} = 25$ 

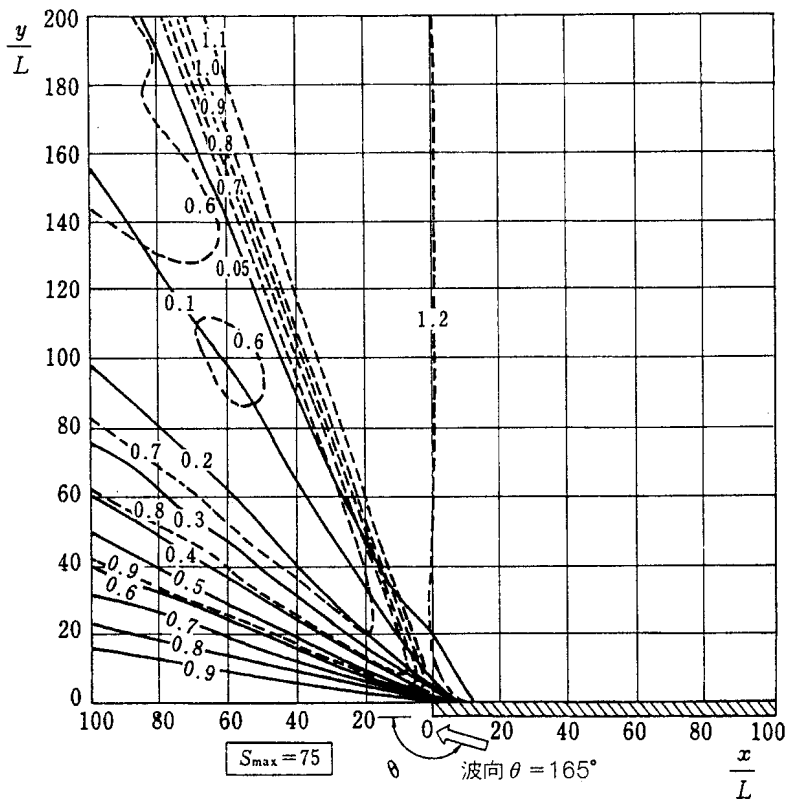
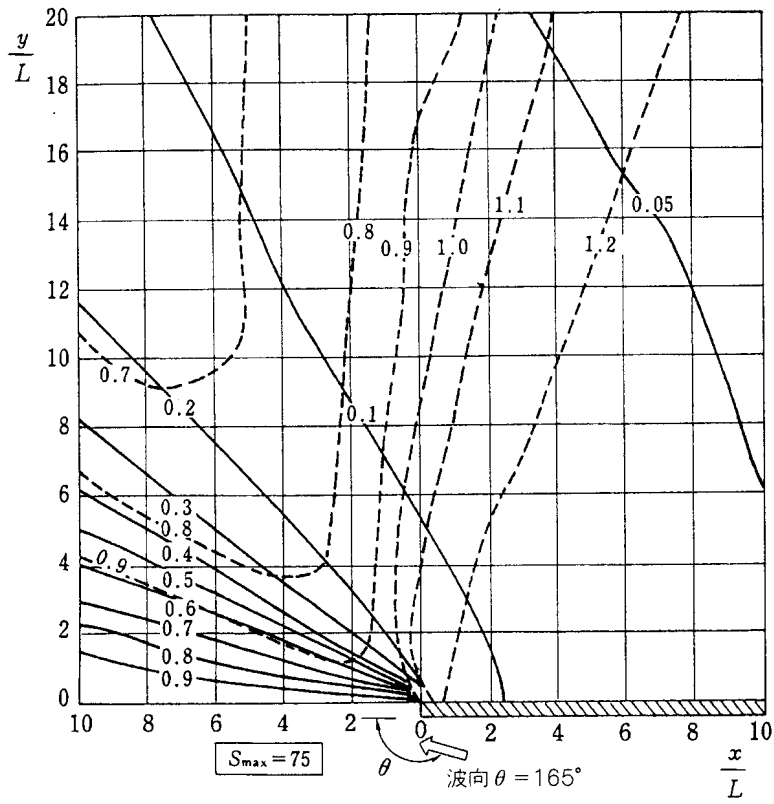
(c) $S_{\max} = 75$



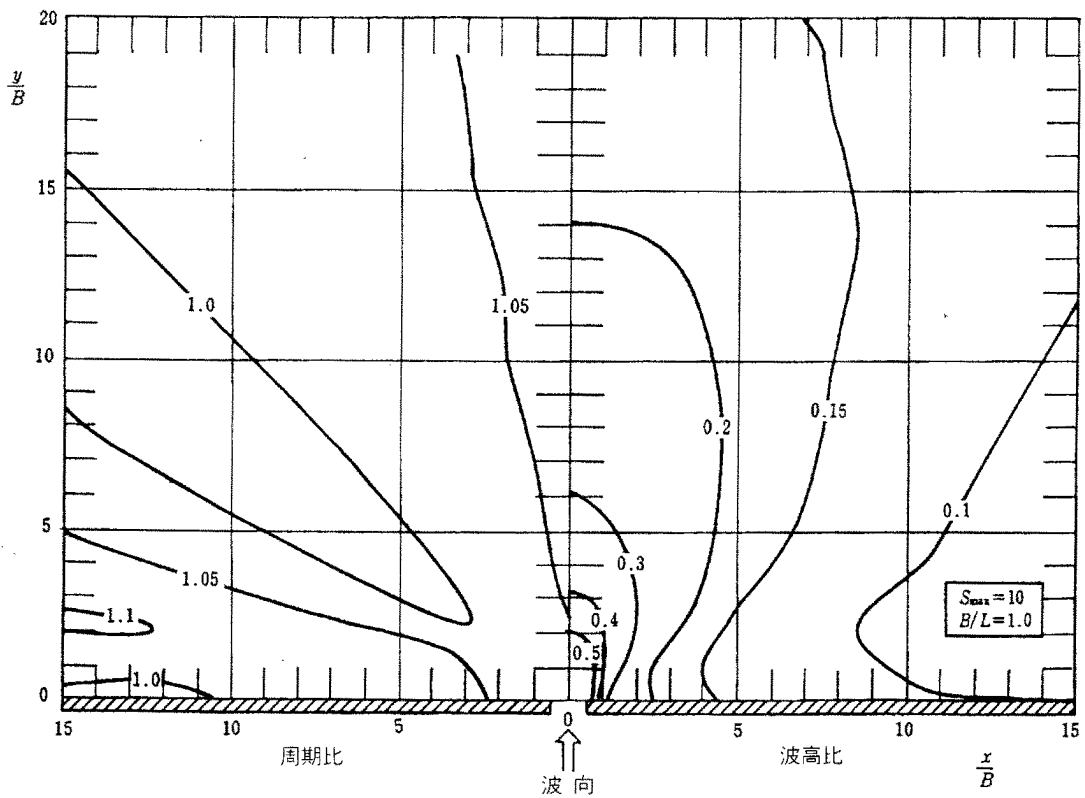
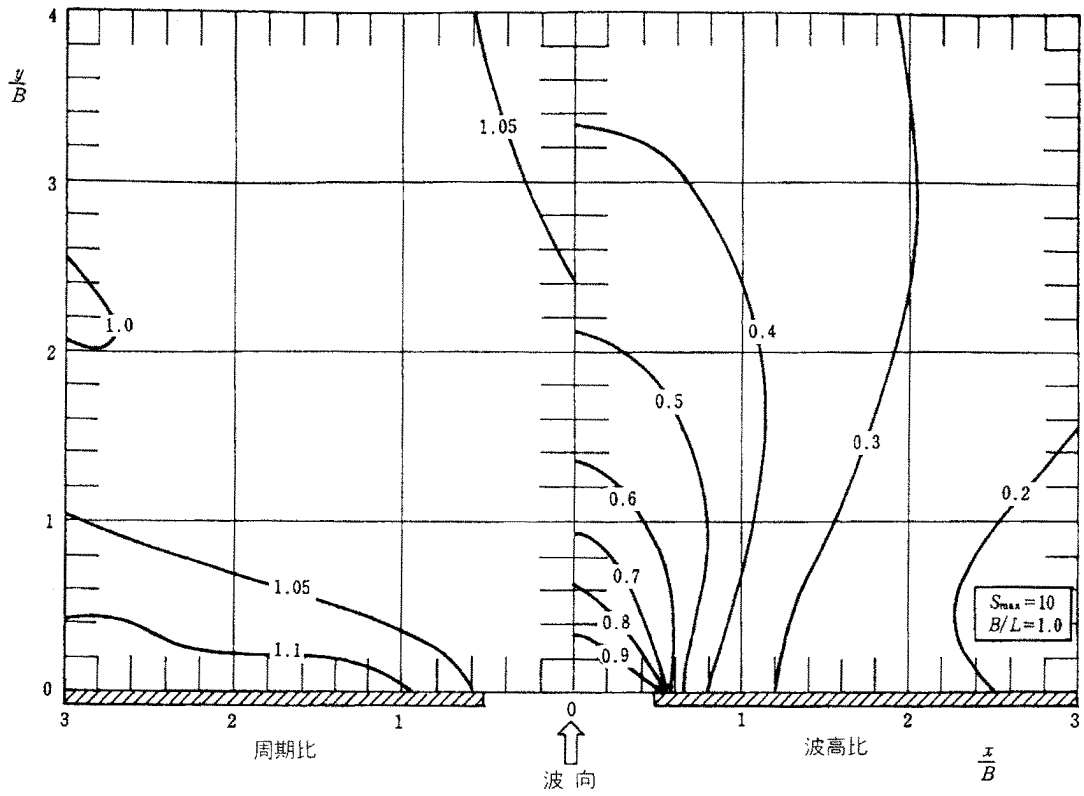
(a) $S_{\max} = 10$ 도2-7 반무한제에 의한 회절도($\theta=165^\circ$)

(b) $S_{\max} = 25$

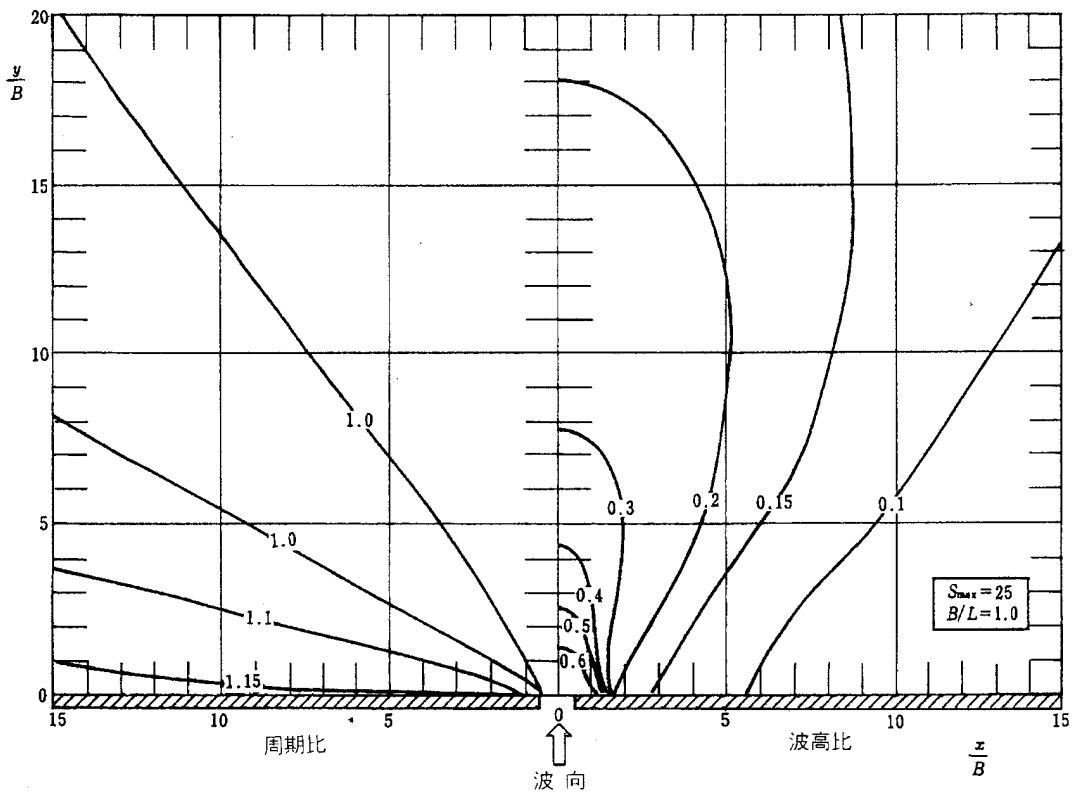
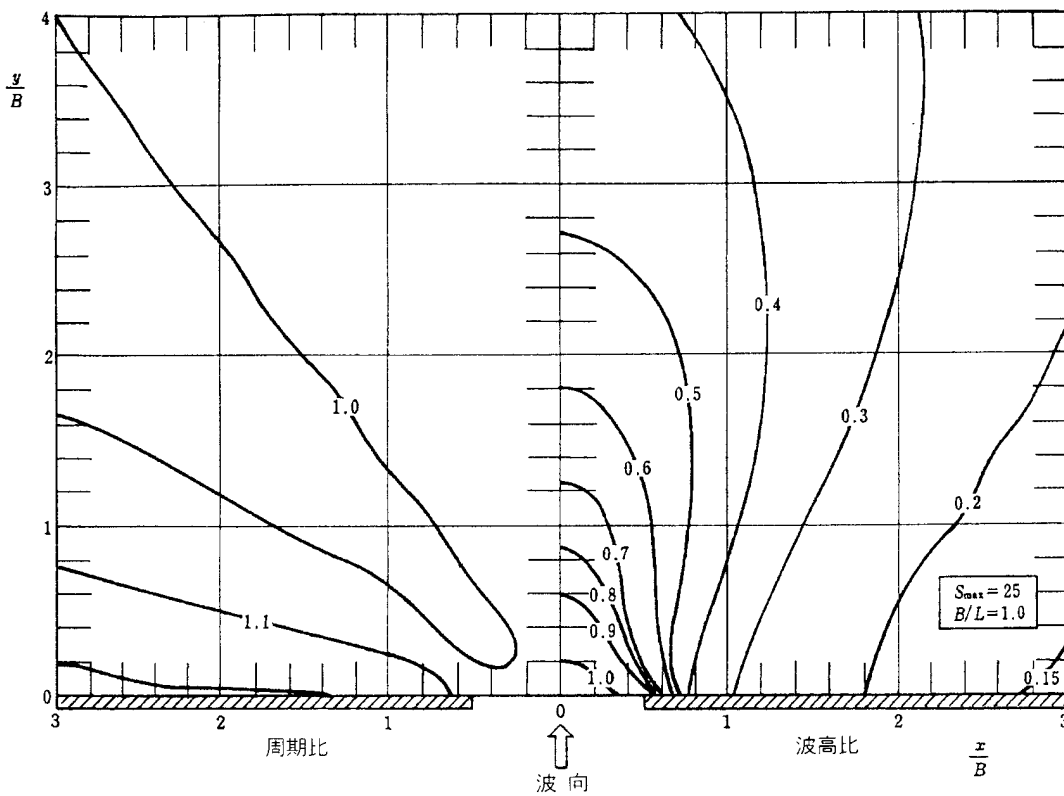


(c) $S_{\max} = 75$ 

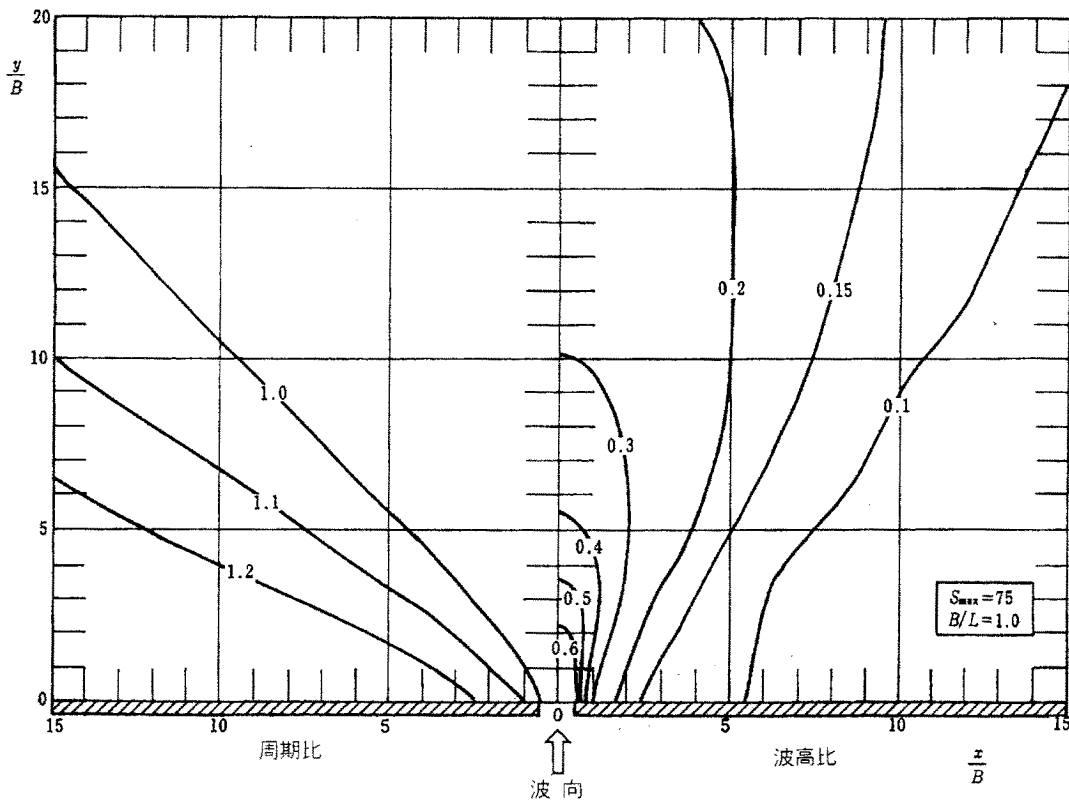
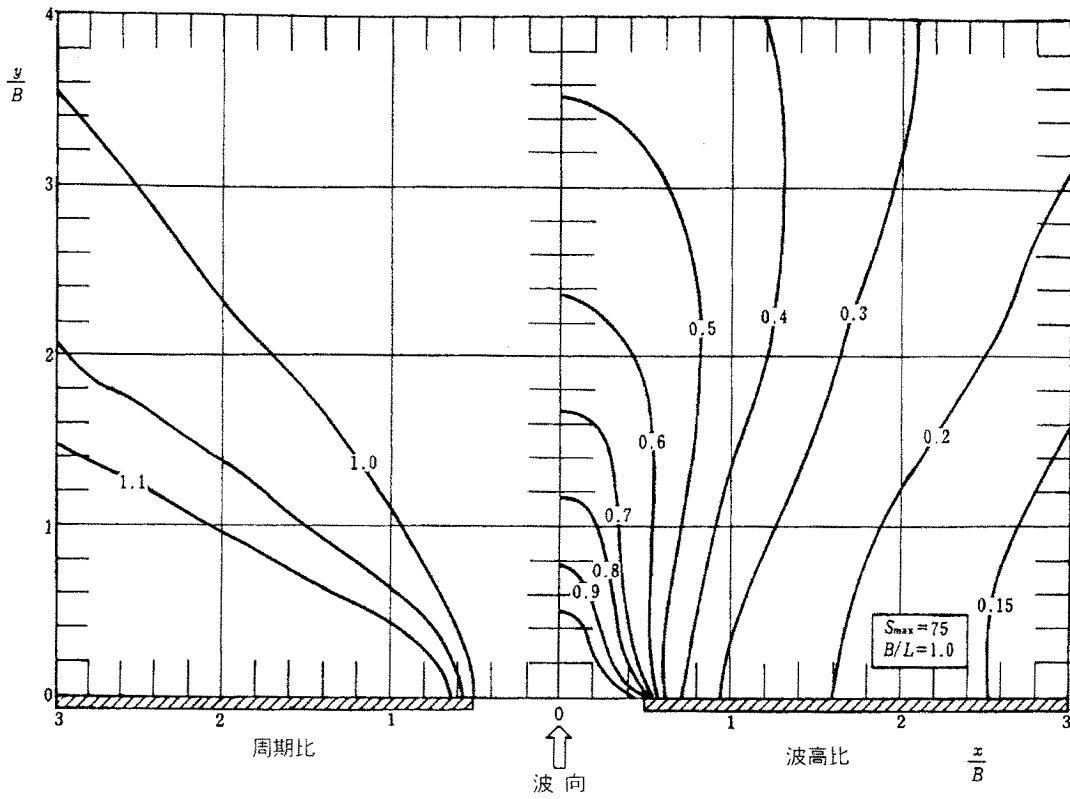
(a) $S_{\max} = 10$



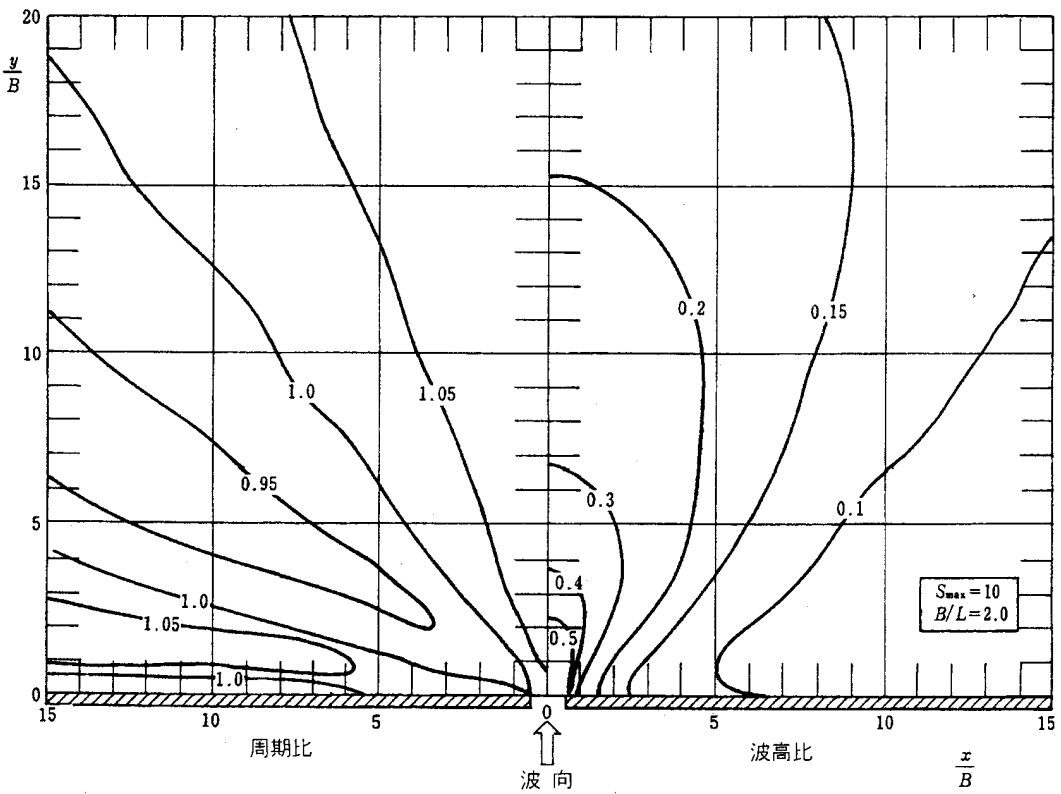
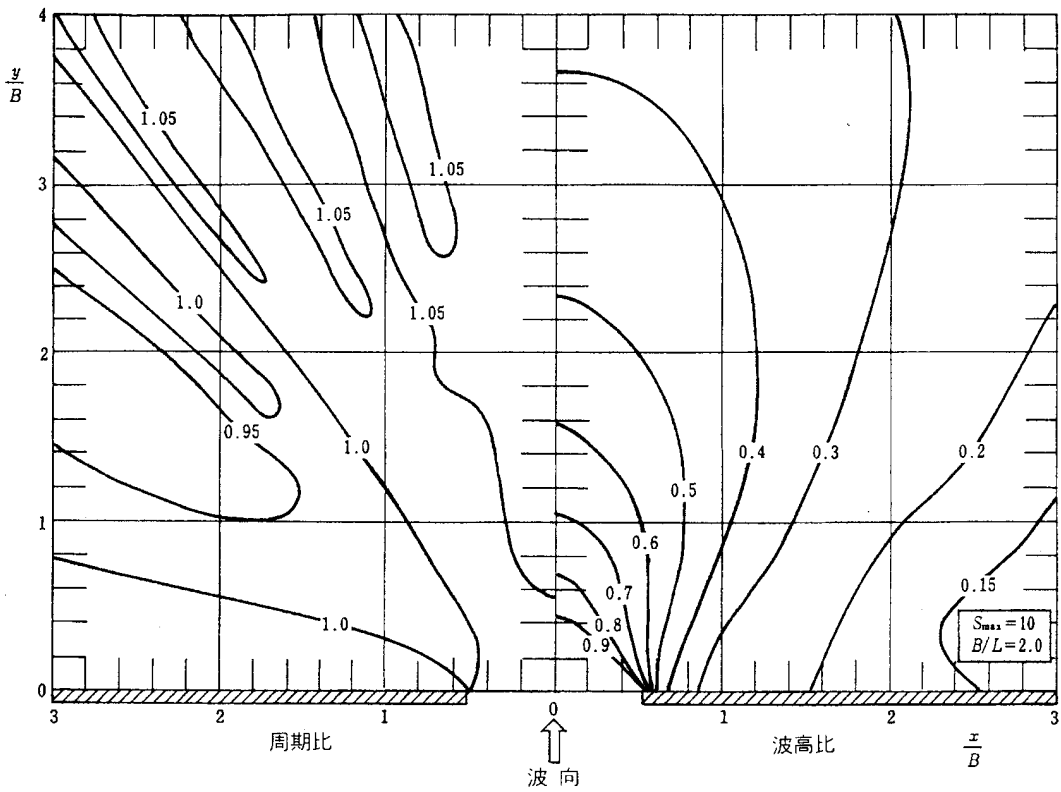
도2-8a 개구방파제에 의한 회절도($B/L=1.0$, $S_{\max}=10$)

(b) $S_{\max} = 25$ 도2-8b 개구방파제에 의한 회절도($B/L=1.0$, $S_{\max}=25$)

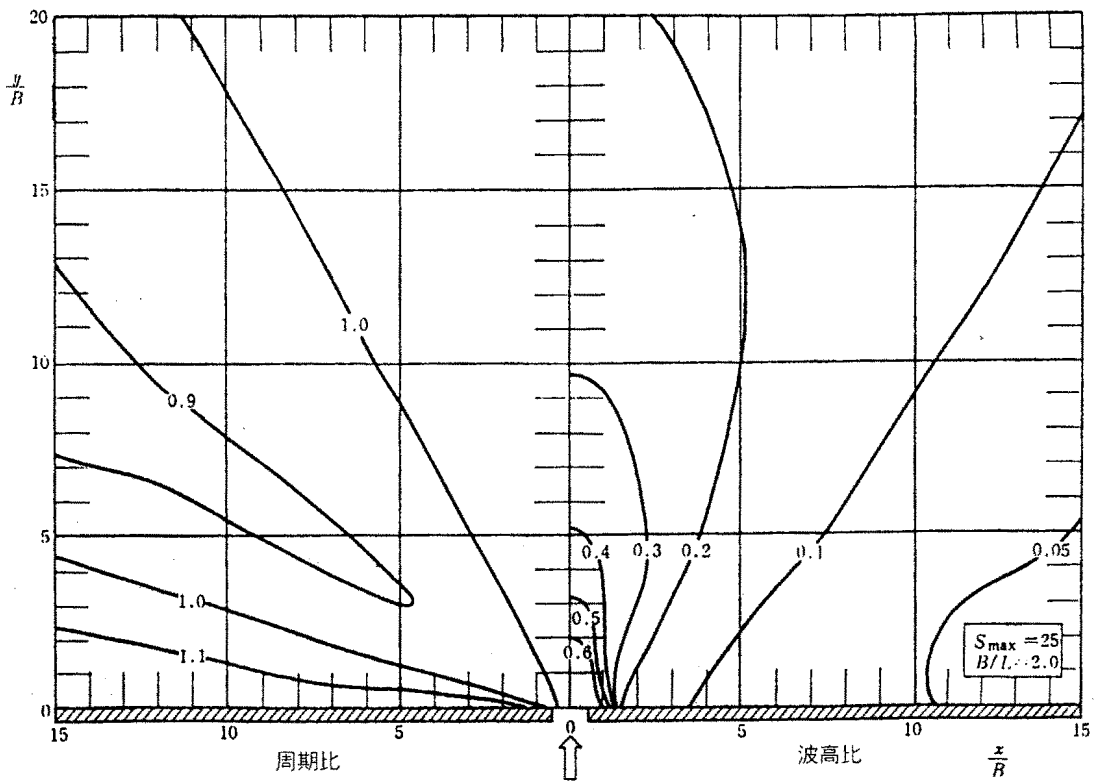
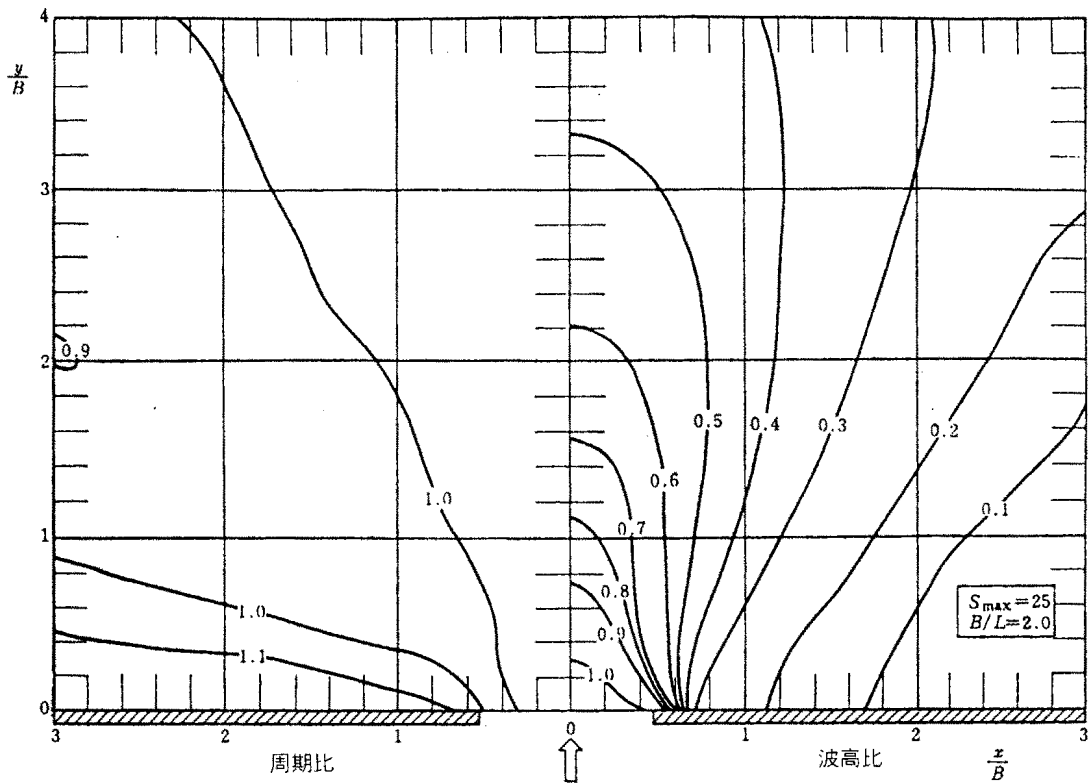
(c) $S_{\max} = 75$



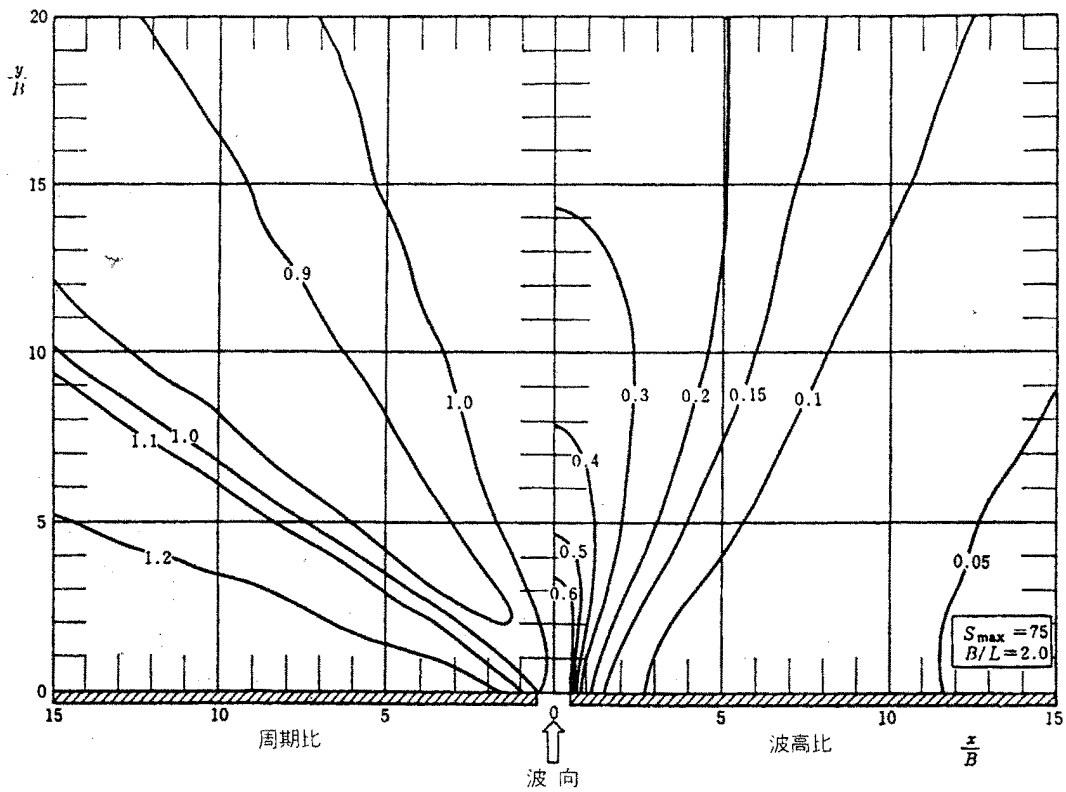
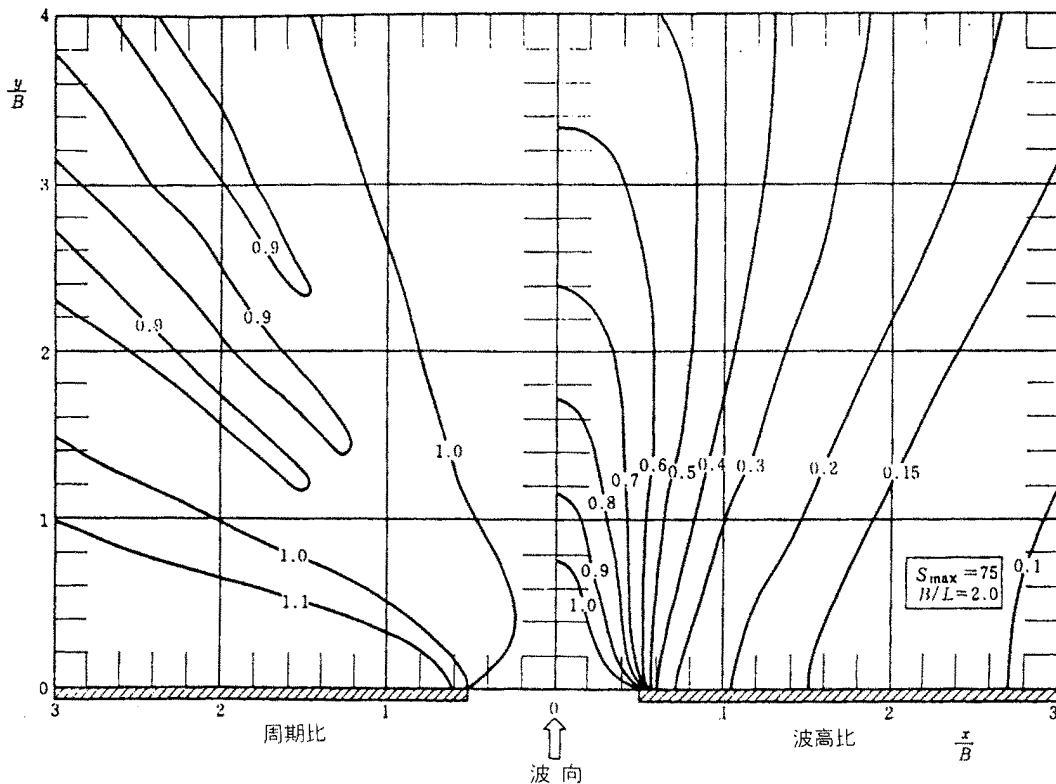
도2-8c 개구방파제에 의한 회절도($B/L=1.0$, $S_{\max}=75$)

(a) $S_{\max} = 10$ 도2-9a 개구방파제에 의한 회절도($B/L=2.0$, $S_{\max}=10$)

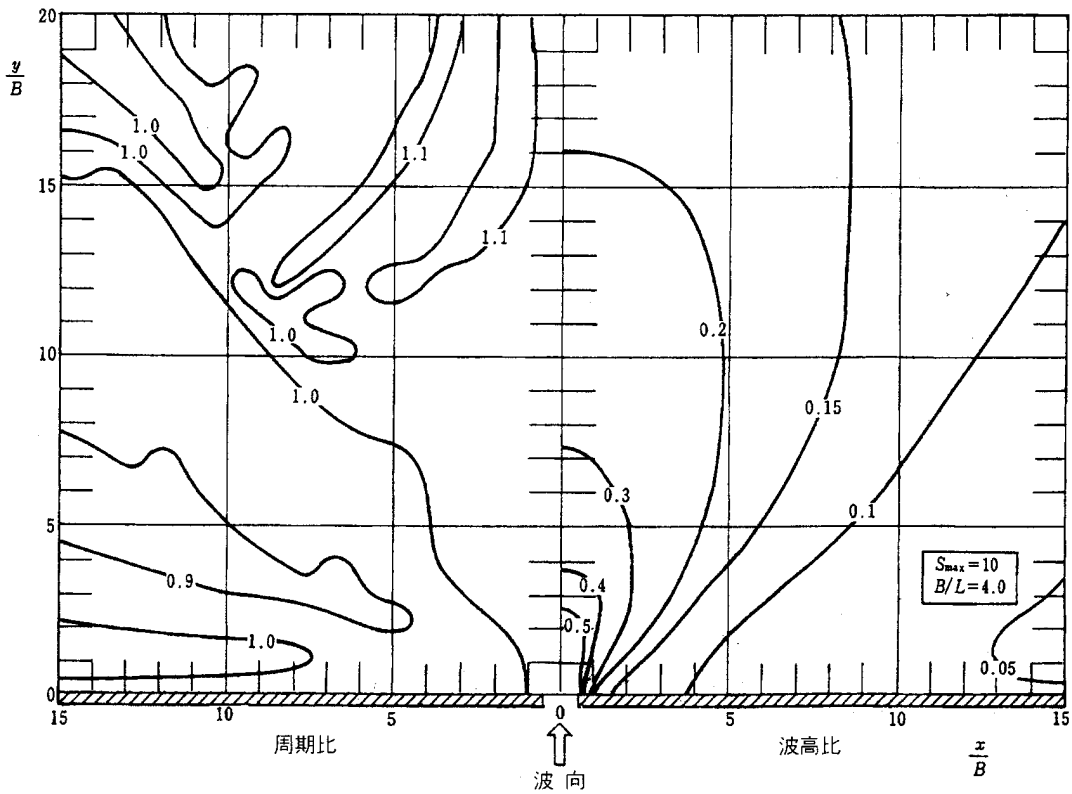
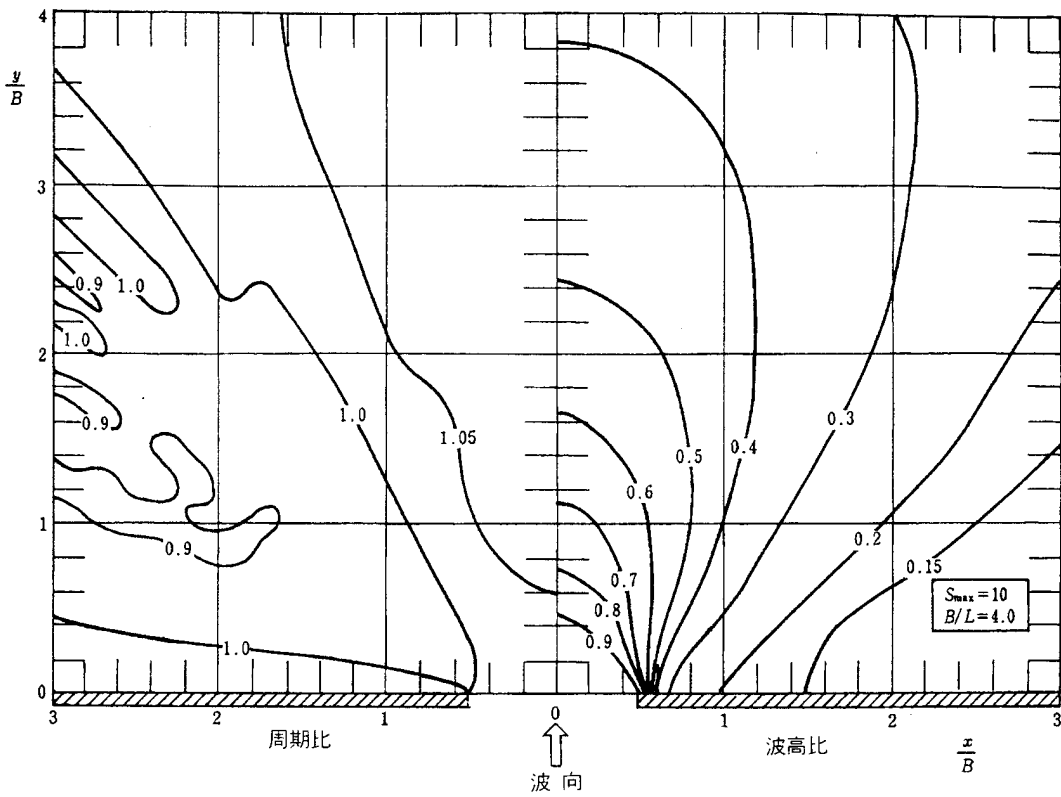
(b) $S_{\max} = 25$



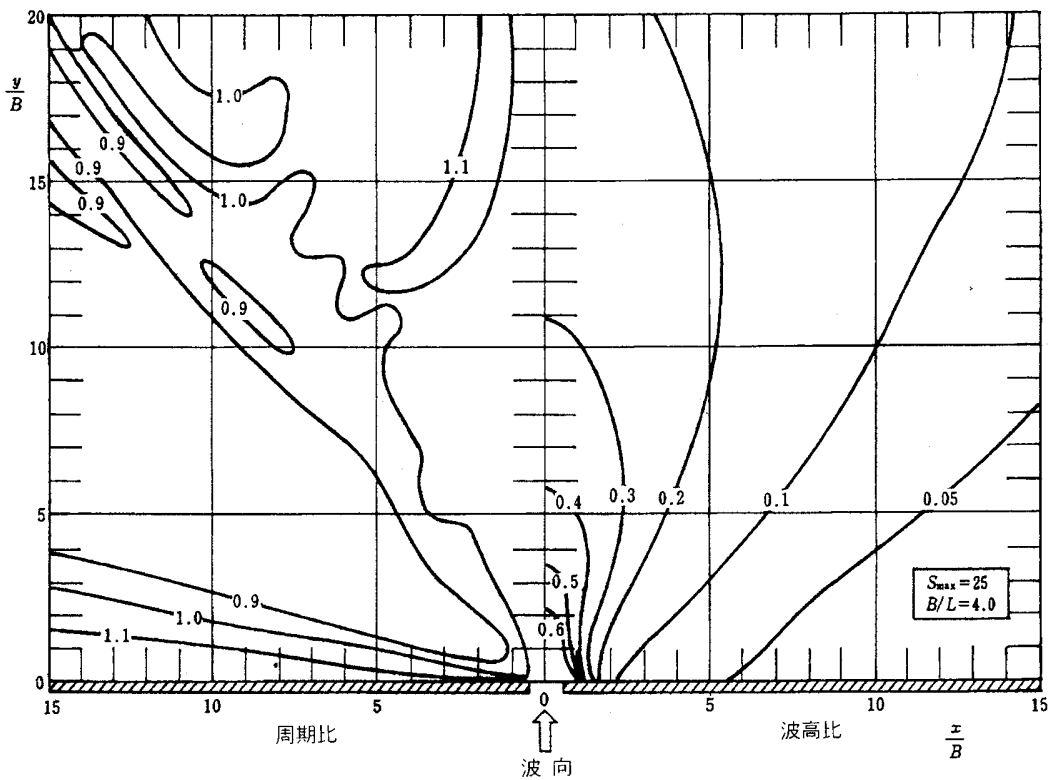
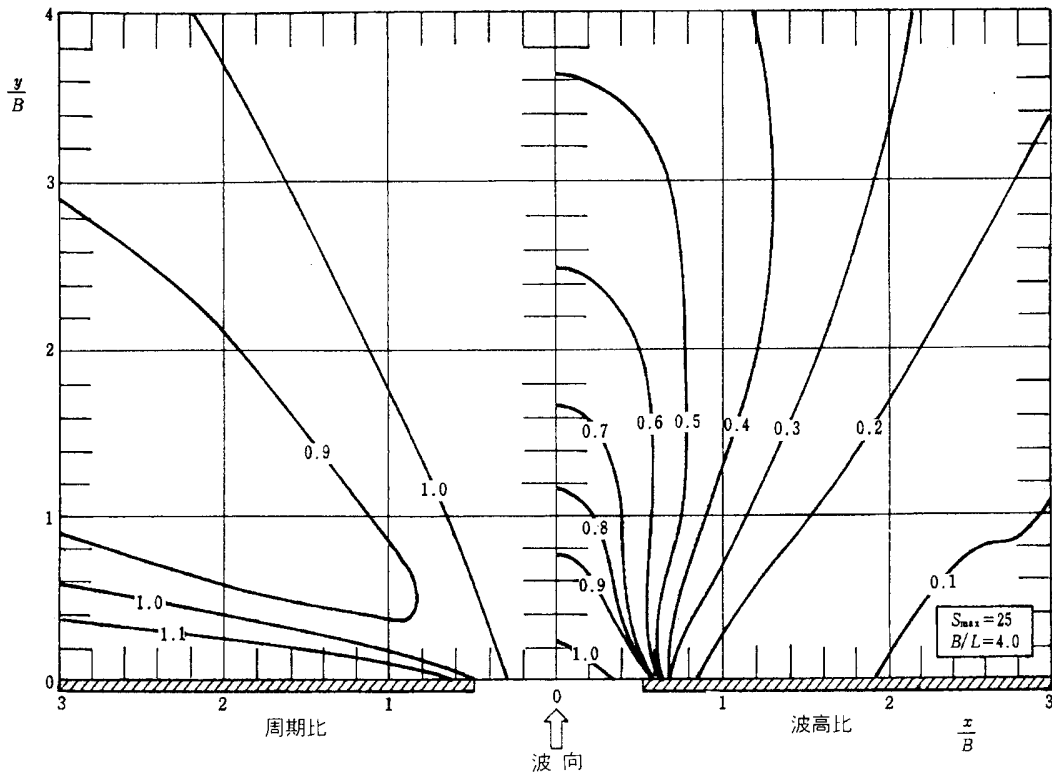
도2-9b 개구방파제에 의한 회절도($B/L=2.0$, $S_{\max}=25$)

(c) $S_{\max} = 75$ 도2-9c 개구방파제에 의한 회절도($B/L=2.0$, $S_{\max}=75$)

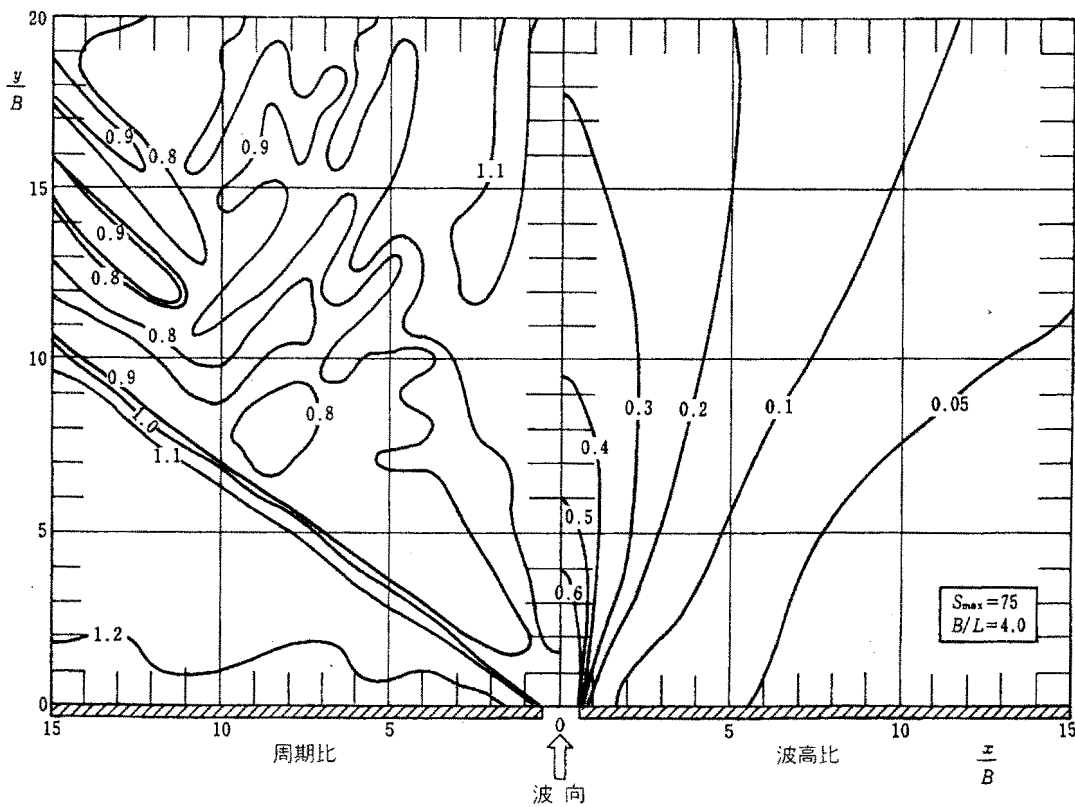
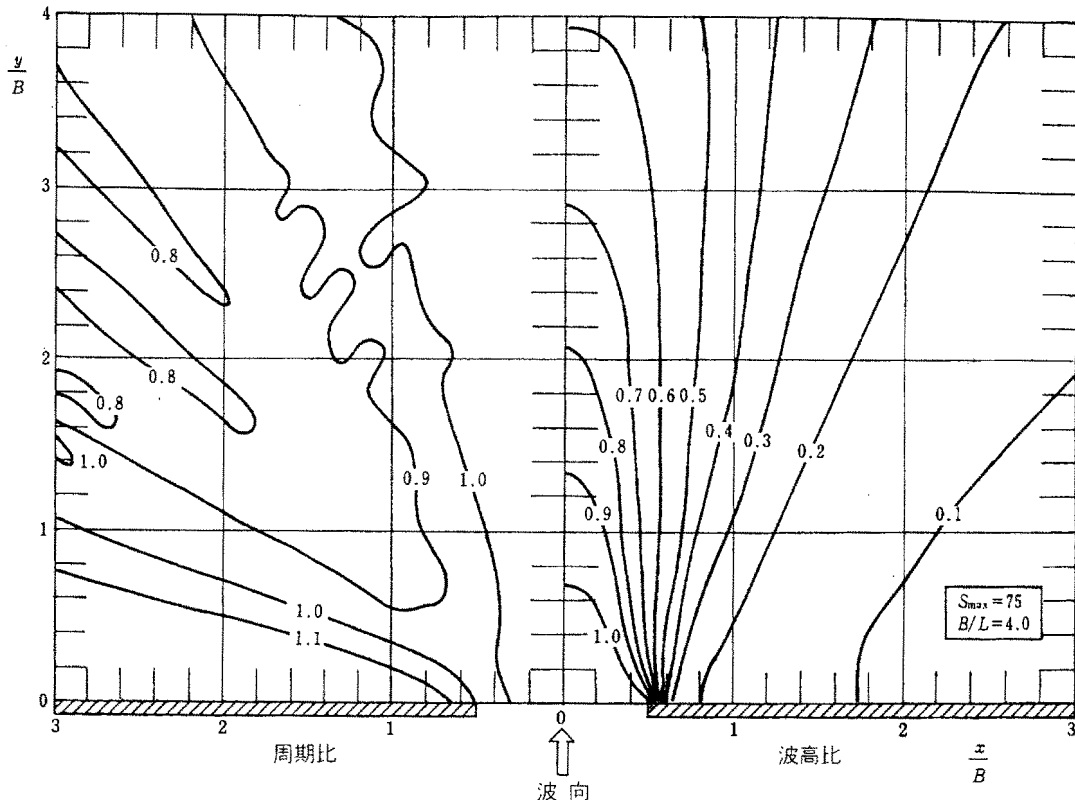
(a) $S_{\max} = 10$



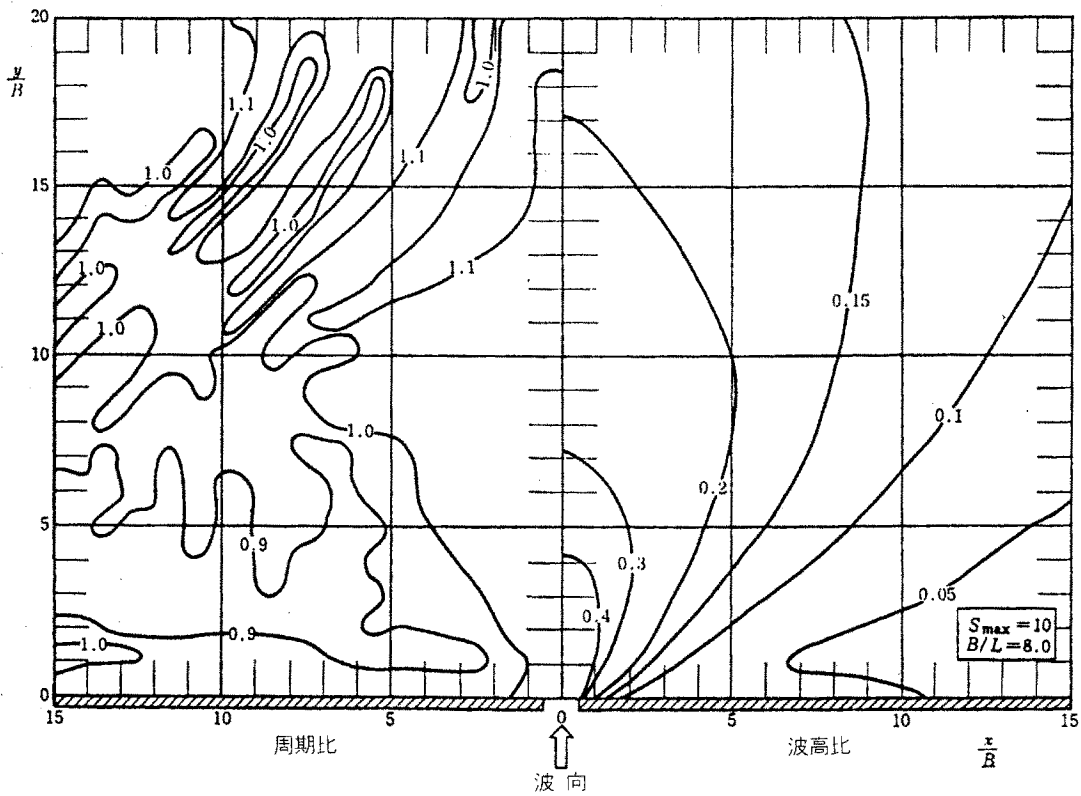
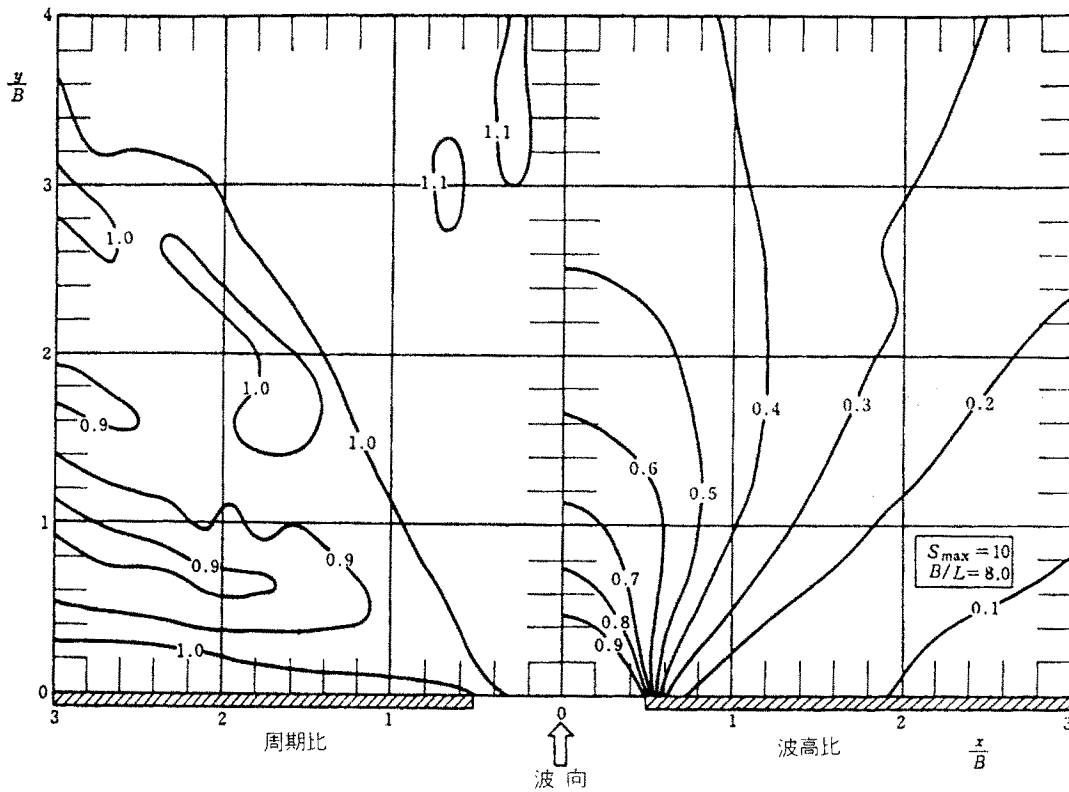
도2-10a 개구방파제에 의한 회절도($B/L=4.0$, $S_{\max}=10$)

(b) $S_{\max} = 25$ 도2-10b 개구방파제에 의한 회절도($B/L=4.0$, $S_{\max}=25$)

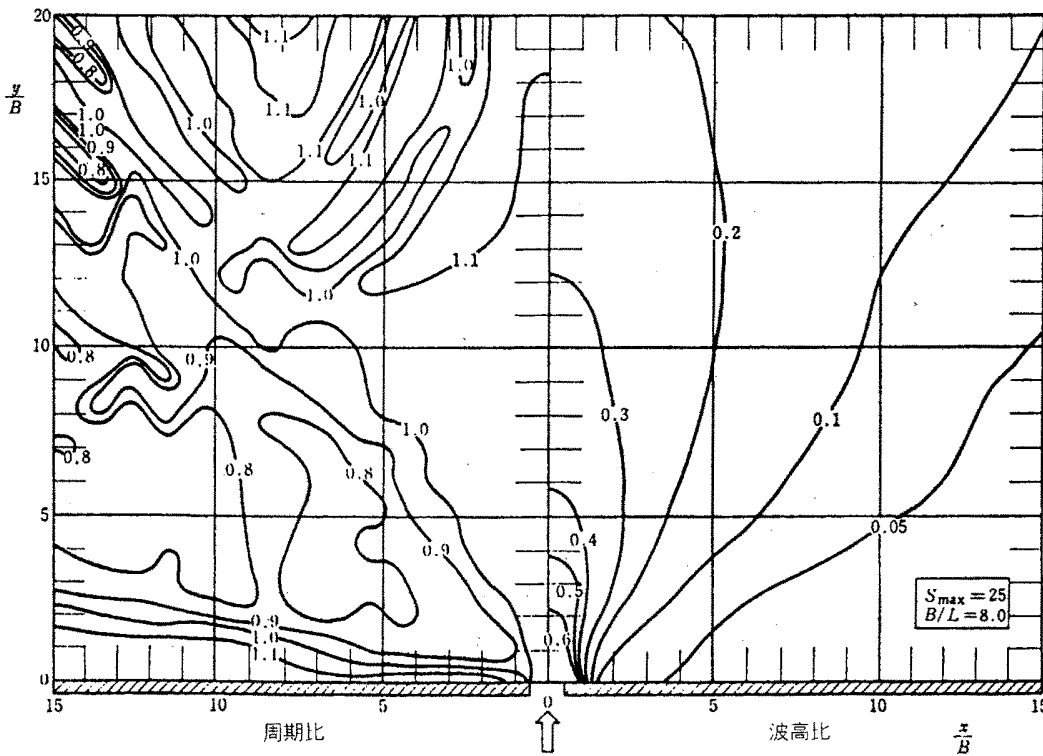
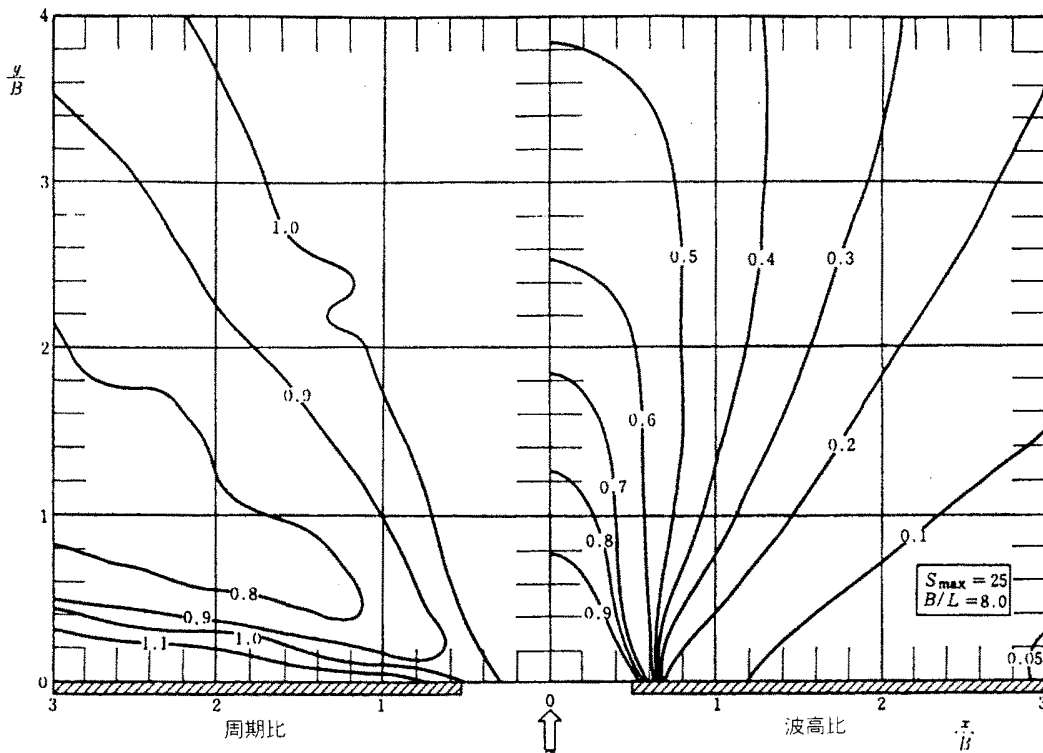
(c) $S_{\max} = 75$



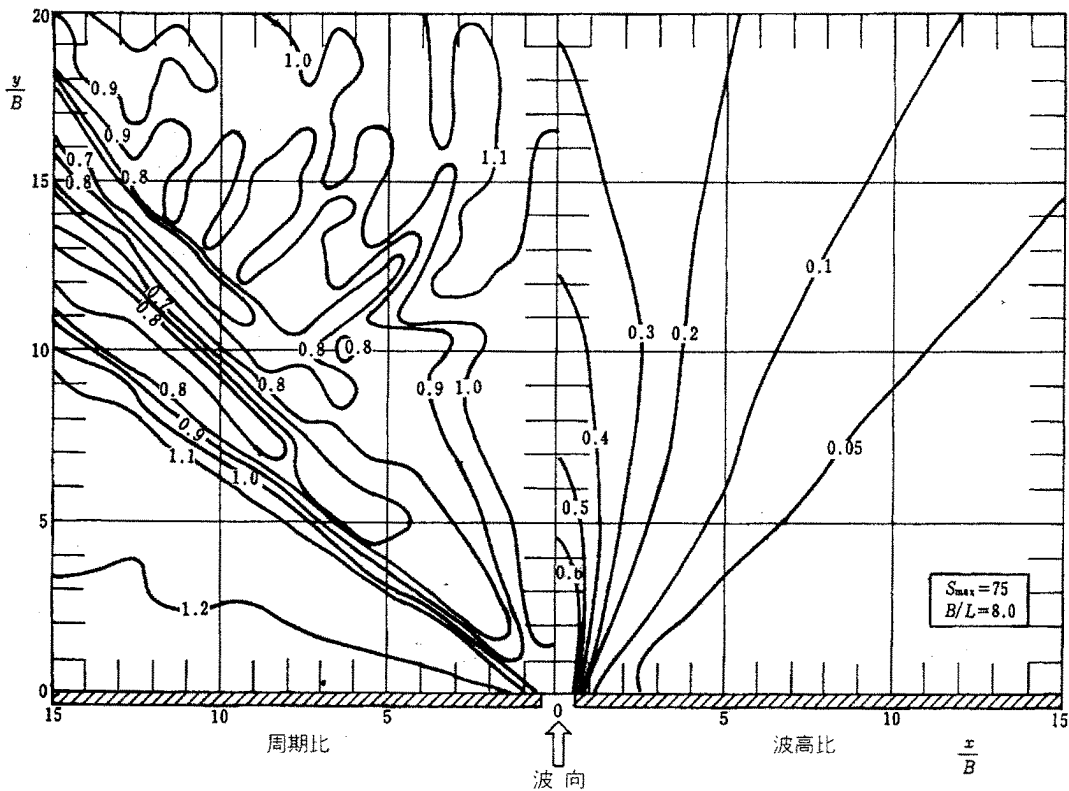
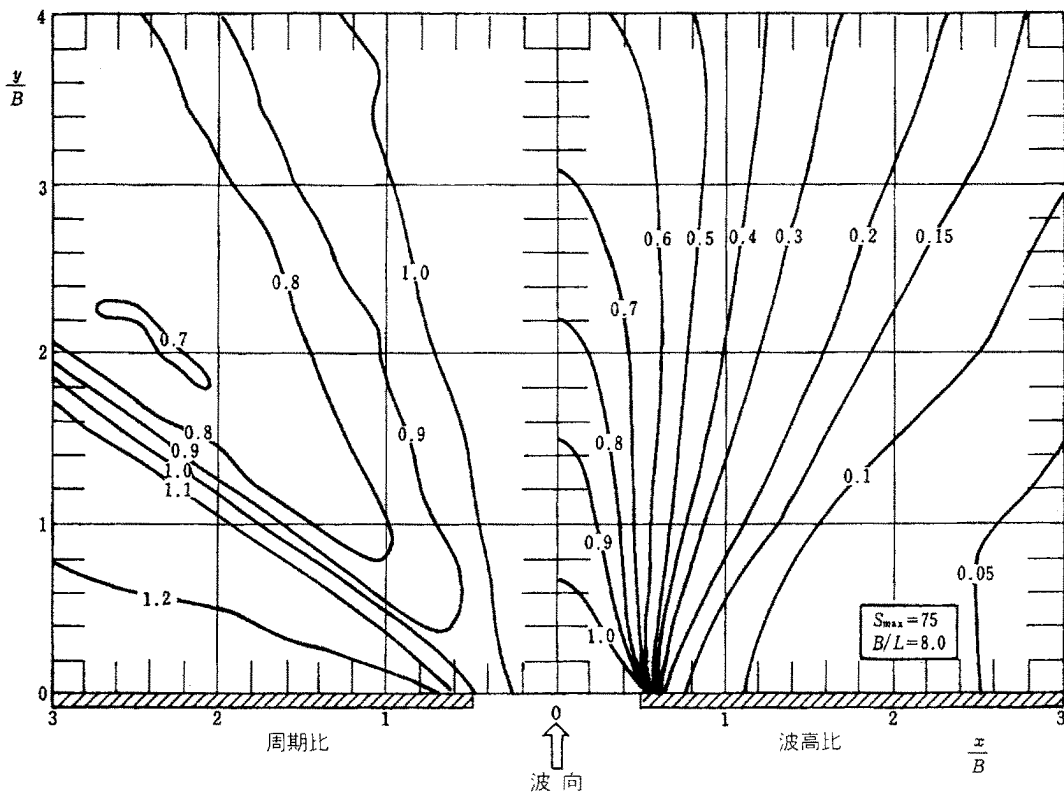
도2-10c 개구방파제에 의한 회절도($B/L=4.0$, $S_{\max}=75$)

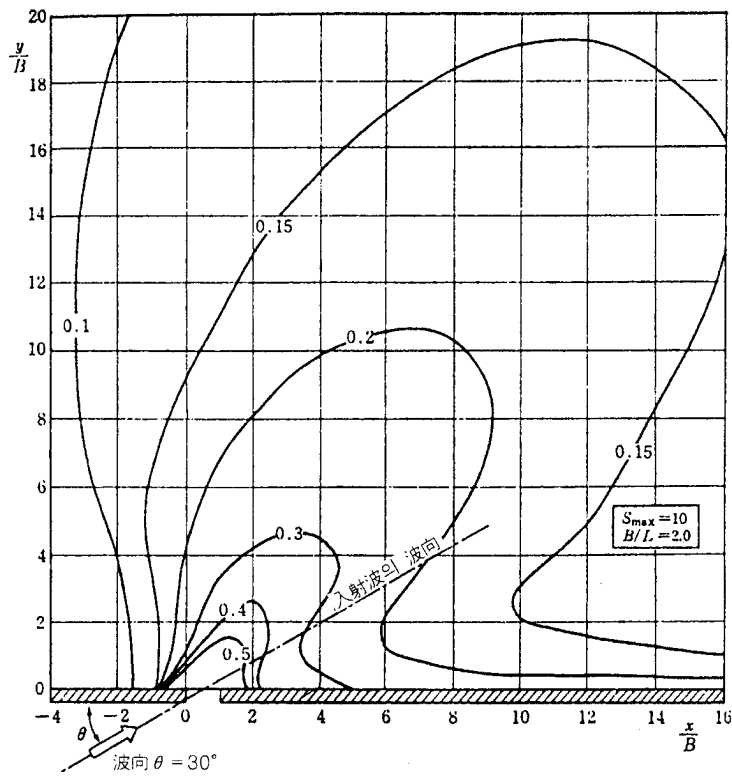
(a) $S_{\max} = 10$ 도2-11a 개구방파제에 의한 회절도($B/L=8.0$, $S_{\max}=10$)

(b) $S_{\max} = 25$

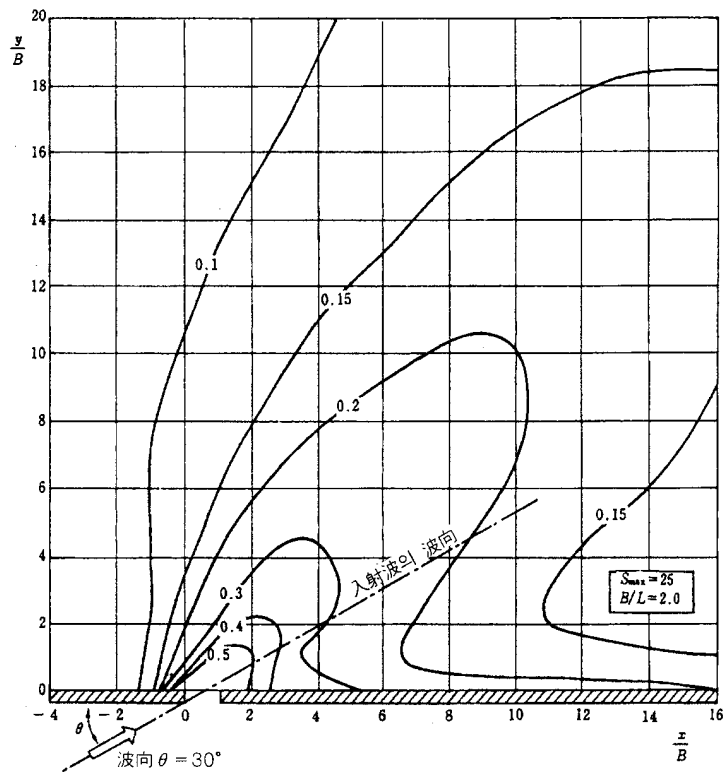


도2-11b 개구방파제에 의한 회절도($B/L=8.0$, $S_{\max}=25$)

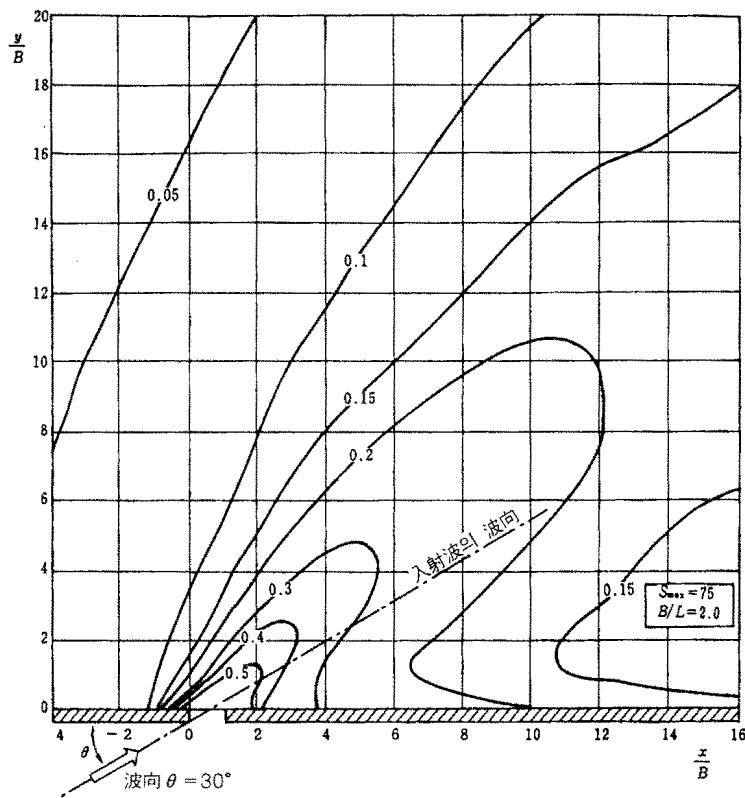
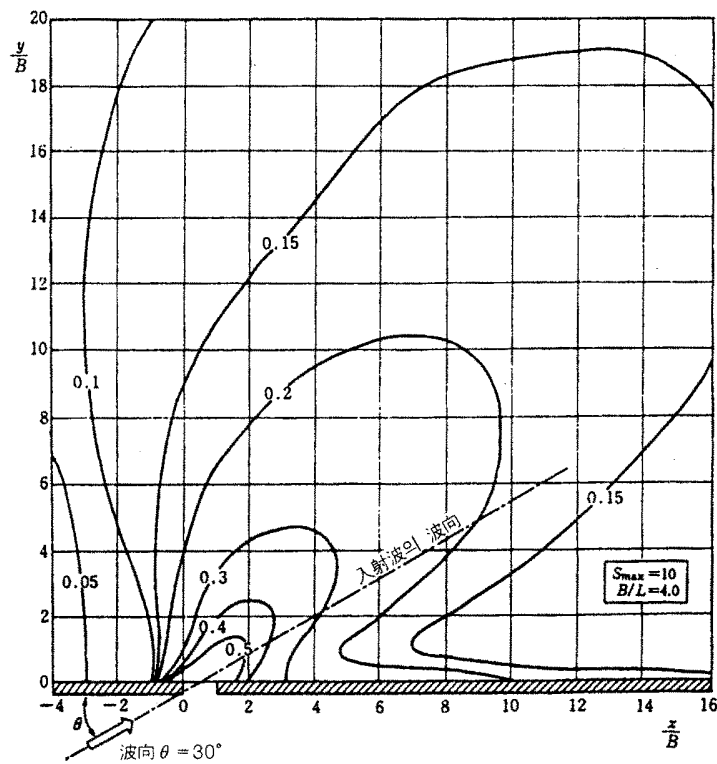
(c) $S_{\max} = 75$ 도2-11c 개구방파제에 의한 회절도($B/L=8.0$, $S_{\max}=75$)

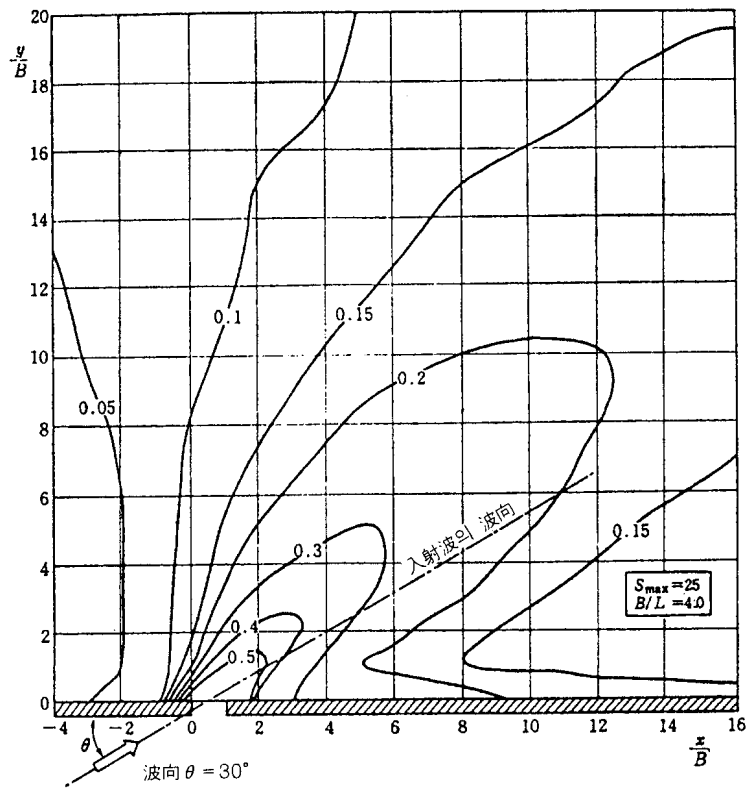


도2-12a 경사진 입사파의 회절도($B/L=2.0$, $\theta=30^\circ$, $S_{\max}=10$)

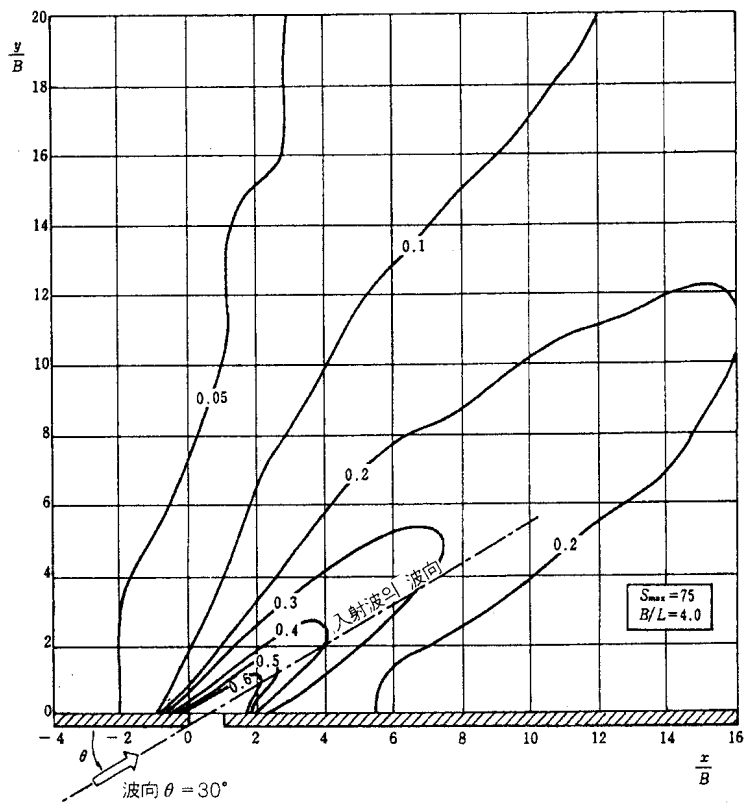


도2-12b 경사진 입사파의 회절도($B/L=2.0$, $\theta=30^\circ$, $S_{\max}=25$)

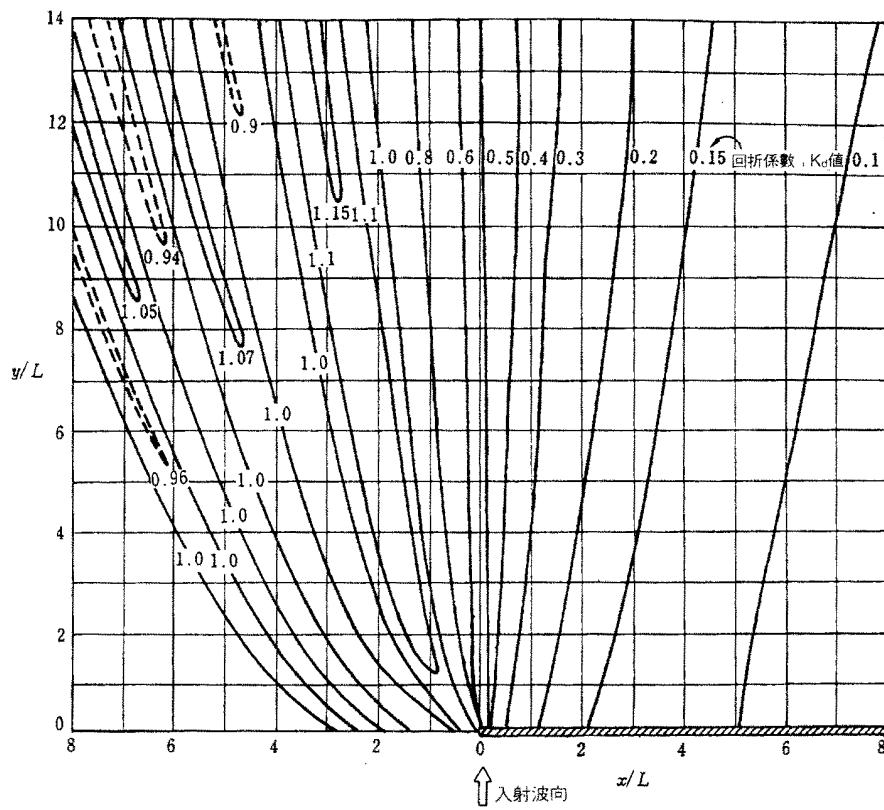
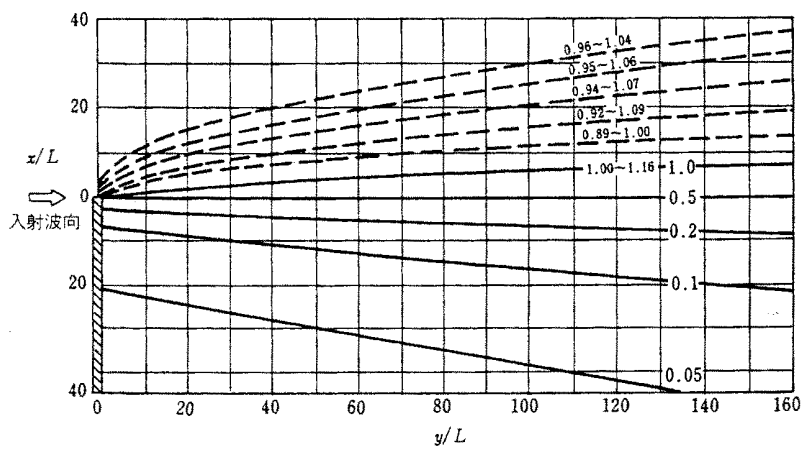
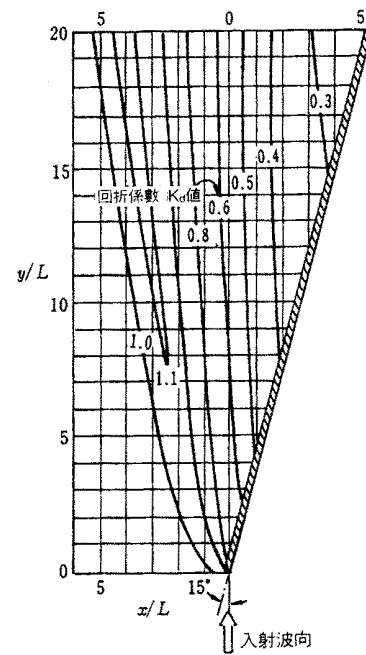
도2-12c 경사진 입사파의 회절도($B/L=2.0$, $\theta=30^\circ$, $S_{\max}=75$)도2-13a 경사진 입사파의 회절도($B/L=4.0$, $\theta=30^\circ$, $S_{\max}=10$)



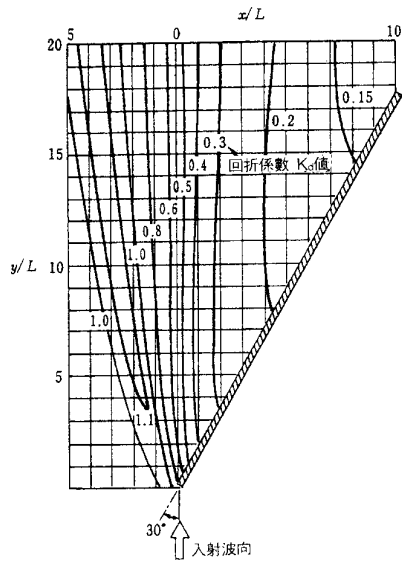
도2-13b 경사진 입사파의 회절도($B/L=4.0$, $\theta=30^\circ$, $S_{\max}=25$)



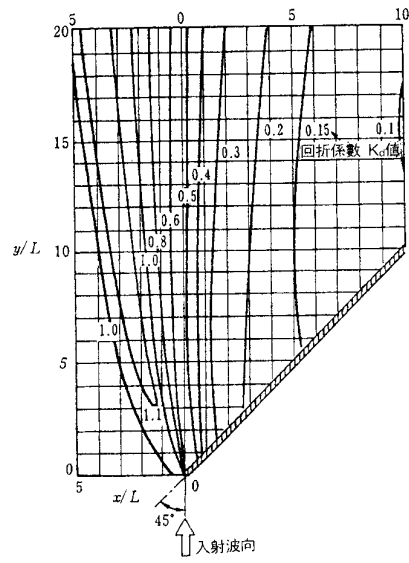
도2-13c 경사진 입사파의 회절도($B/L=4.0$, $\theta=30^\circ$, $S_{\max}=75$)

(a) $\theta_0 = 90^\circ$ (b) $\theta_0 = 90^\circ$ (c) $\theta_0 = 15^\circ$

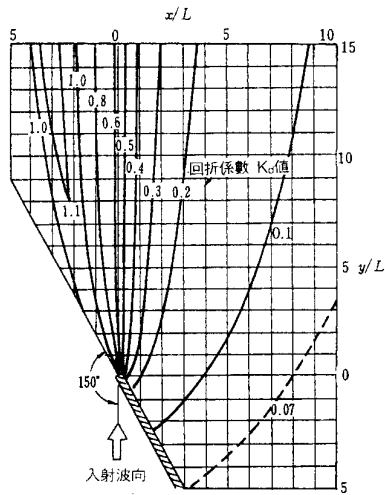
도2-14 반무한제에 의한 규칙파의 회절도



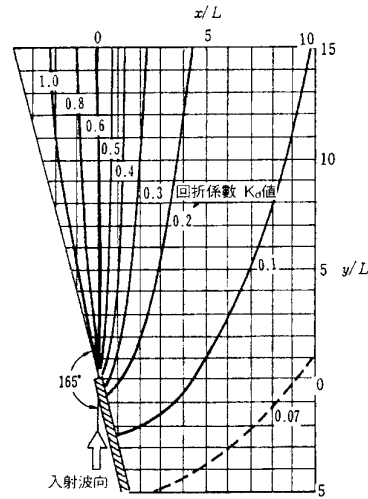
(d) $\theta_0 = 30^\circ$



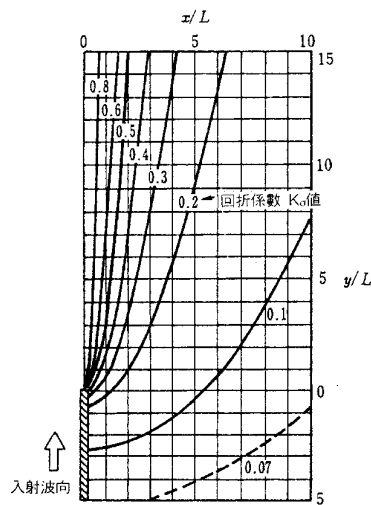
(e) $\theta_0 = 45^\circ$



(f) $\theta_0 = 150^\circ$

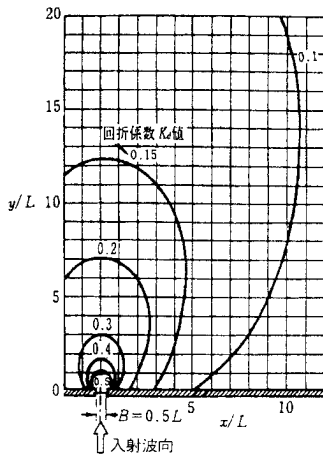
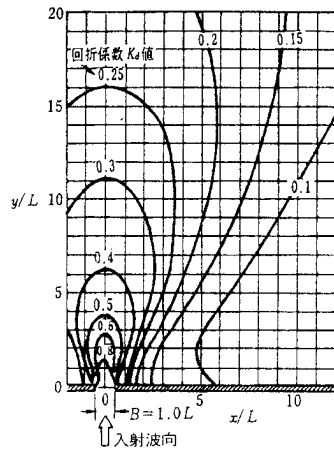
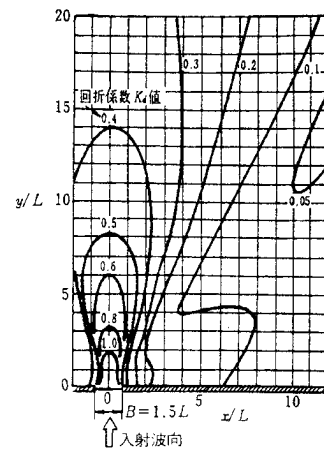
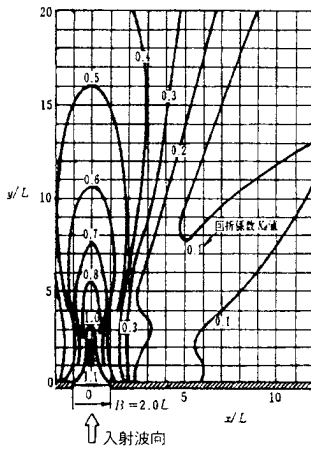
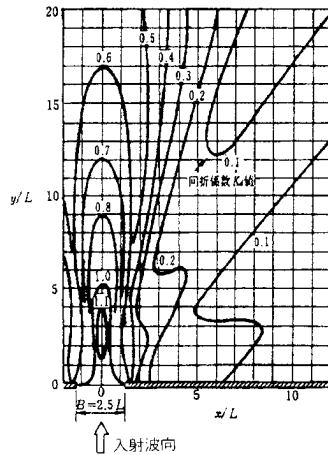
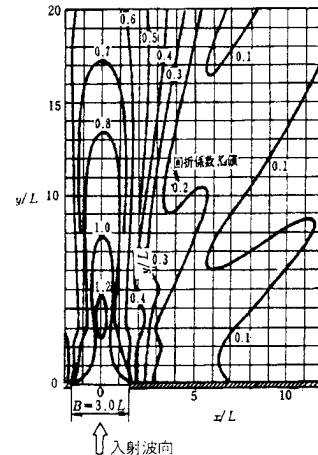
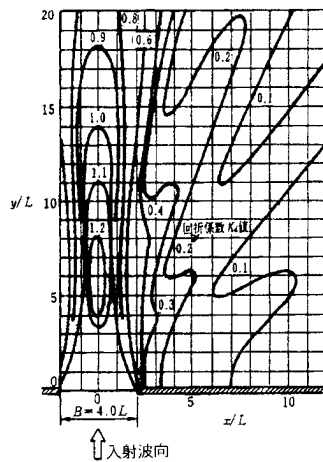
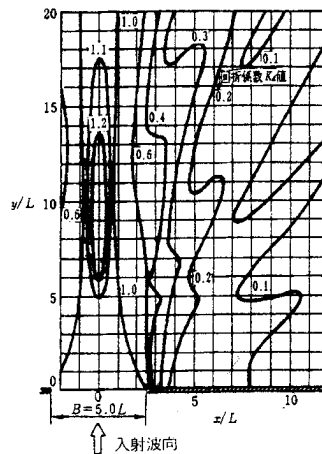


(g) $\theta_0 = 165^\circ$



(h) $\theta_0 = 180^\circ$

도2-15 반무한제에 의한 규칙파의 회절도

(a) $B/L = 0.5$ (b) $B/L = 1.0$ (c) $B/L = 1.5$ (d) $B/L = 2.0$ (e) $B/L = 2.5$ (f) $B/L = 3.0$ (g) $B/L = 4.0$ (h) $B/L = 5.0$

도2-16 개구부를 갖는 방파제에 의한 규칙파의 회절도

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권말2. 판의 Bending Moment 계산수표

(1) 일 반

판의 Bending Moment 계산수표는 등분포하중 또는 3각형 분포하중을 받는 3변고정 1변자유판 및 4변고정 판의 Bending Moment를 구하기 위한 것이다.

계산법은 식(3-1)에 의한 얇은 판의 기초방정식을 해석적으로 풀 것이다. 즉, 수종류의 Levy형의 해를 중합 하여 소요 지지조건을 만족하도록 적분정수를 정하는 방법이다. 적분정수는 조건식을 후리에 급수로 전개하 여 구하였다.

$$\frac{\partial^4 w}{\partial x^4} + 2 \frac{\partial^4 w}{\partial x^2 \partial y^2} + \frac{\partial^4 w}{\partial y^4} = \frac{P}{D}$$

(3-1)

여기서,

- w ; Deflection (m)
- P ; 하중강도 (kN/m²)
- D ; 판의강도 (kN · m) $D = \frac{E_t^3}{12 (1 - \nu^2)}$
- E ; 판의 Young's modulus
- t ; 판 두께 (m)
- ν ; Poisson비 $\nu = \frac{1}{6}$

(2) 3변고정 1변자유판의 계산수표

계산수표는 도(3-1)(a)~(b)와 같이 자유변의 방향을 y 좌표, 이에 직각인 방향을 x 좌표로 하고 y 방향의 변을 4등분, x 방향의 변을 6등분 및 8등분하고 있다.

각 격자점에서의 Bending Moment는 식(3-2), 식(3-3)에 의하여 구한다.

$\lambda \leq 1$ 의 경우

$$M_x = X q \ell_x^2$$

(3-2)

$$M_y = Y q \ell_x^2$$

$\lambda > 1$ 의 경우

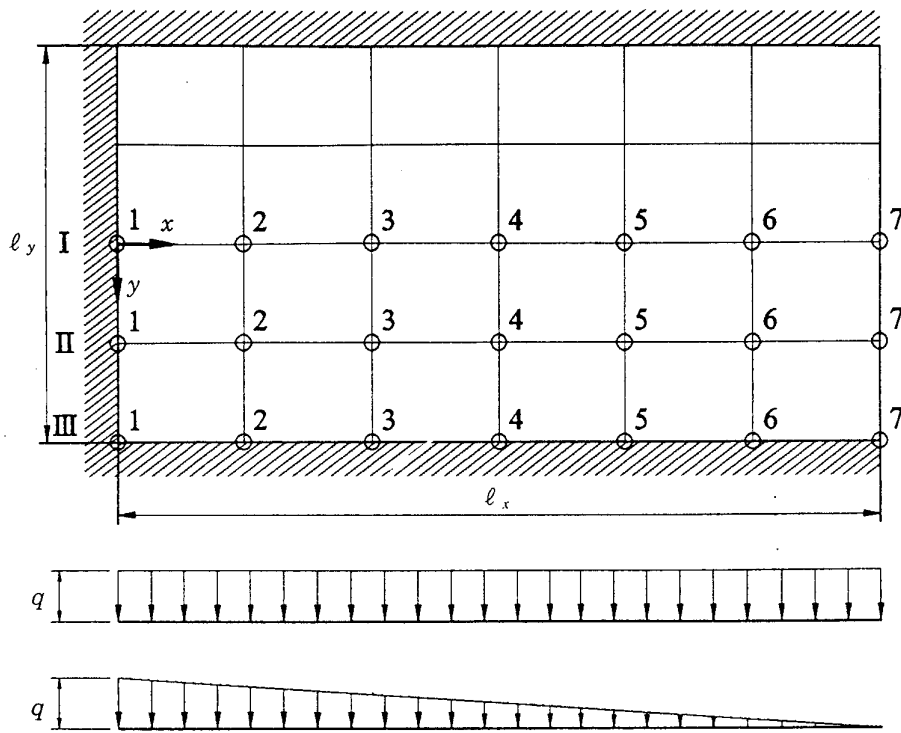
$$M_x = X q \ell_y^2$$

(3-3)

$$M_y = Y q \ell_y^2$$

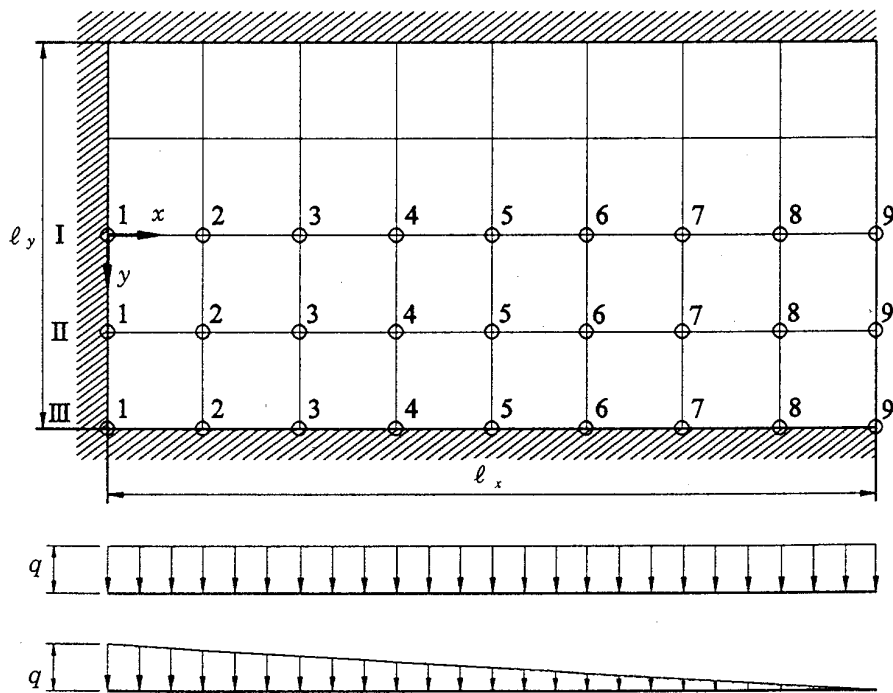
여기서,

- λ ; 변장비 $\lambda = \ell_x / \ell_y$
- M_x, M_y ; 구하는 점에서 x 방향, y 방향의 Bending Moment (kN · m/m)
- X, Y ; 구하는 점에서 x 방향, y 방향의 Bending Moment 계수
- ℓ_x, ℓ_y ; x 방향, y 방향의 길이
- q ; 등분포하중의 경우는 하중강도, 3각형 분포하중의 경우는 최대하중강도



6等分

도(3-1)(a) 3변고정1변자유판

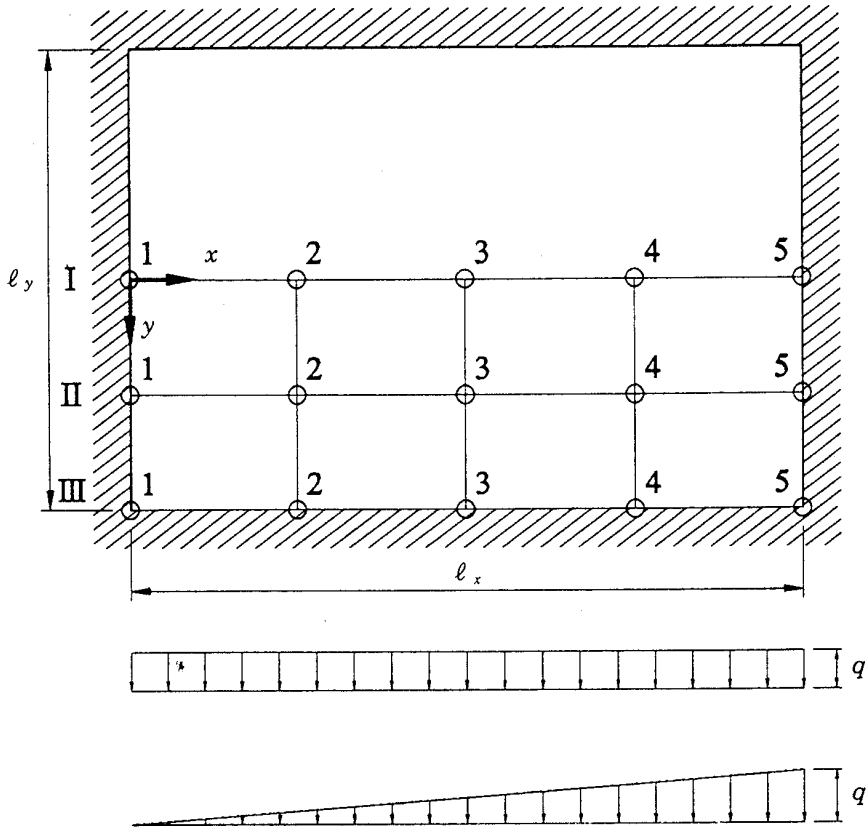


8等分

도(3-1)(b) 3변고정1변자유판

(3) 4변고정판의 계산수표

계산수표는 도(3-2)와 같이 x방향, y방향을 정하고 격자는 일변을 4등분하고 있다.
각 격자점에서의 Bending Moment는 식(3-2), 식(3-3)에 의하여 구한다.



도(3-2) 4변고정판

(4) 계산수표

3변고정1변자유판의 Bending Moment계수에 대하여는 x방향변을 6등분한 경우는 표(3-1)(a)~(g)를, 8등분한 경우는 표(3-2)(a)~(g)를 참조할 것.
또, 4변고정판에 대하여는 표(3-3)(a)~(e)를 참조할 것.

표(3-1) 3변고정 1변자유판의 계산수표(x방향 6등분, y방향 4등분)

(a) $\lambda=0.30, 0.40, 0.50$

λ	荷 重	Bending Moment 계수	座 標	1	2	3	4	5	6	7
0.30	等 分 布 荷 重	X	I	-0.3819	-0.2308	-0.0093	-0.0434	0.0002	0.0143	0
			II	-0.2656	-0.1504	-0.0723	-0.0230	0.0035	0.0108	0
			III	0	-0.0031	-0.0128	-0.0379	-0.0379	-0.0533	0
		Y	I	-0.0636	-0.0347	-0.0061	0.0436	0.0436	0.0625	0.0762
			II	-0.0443	-0.0206	0.0024	0.0391	0.0391	0.0519	0.0614
			III	0	-0.0186	-0.0770	-0.2277	-0.2277	-0.3196	-0.4201
	三 角 形 分 布 荷 重	X	I	-0.1353	-0.0654	-0.0219	0.0086	0.0086	0.0067	0
			II	-0.1021	-0.0427	-0.0095	0.0082	0.0082	0.0049	0
			III	0	-0.0023	-0.0061	-0.0116	-0.0116	-0.0141	0
		Y	I	-0.0225	-0.0098	0.0002	0.0134	0.0134	0.0175	0.0207
			II	-0.0170	-0.0056	0.0032	0.0127	0.0127	0.0148	0.0164
			III	0	-0.0137	-0.0366	-0.0697	-0.0697	-0.0845	-0.0981
0.40	等 分 布 荷 重	X	I	-0.2840	-0.1497	-0.0596	0.0207	0.0207	0.0220	0
			II	-0.1819	-0.0908	-0.0342	0.0111	0.0111	0.0113	0
			III	0	-0.0033	-0.0127	-0.0346	-0.0346	-0.0468	0
		Y	I	-0.0473	-0.0188	0.0112	0.0645	0.0645	0.0848	0.1004
			II	-0.0303	-0.0109	0.0074	0.0353	0.0353	0.0448	0.0523
			III	0	-0.0195	-0.0761	-0.2078	-0.2078	-0.2811	-0.3553
	三 角 形 分 布 荷 重	X	I	-0.1084	-0.0431	-0.0058	0.0136	0.0136	0.0084	0
			II	-0.0770	-0.0257	0.0002	0.0090	0.0090	0.0044	0
			III	0	-0.0023	-0.0061	-0.0107	-0.0107	-0.0124	0
		Y	I	-0.0181	-0.0054	0.0052	0.0196	0.0196	0.0239	0.0274
			II	-0.0128	-0.0025	0.0051	0.0117	0.0117	0.0126	0.0133
			III	0	-0.0140	-0.0364	-0.0644	-0.0644	-0.0743	-0.0810
0.50	等 分 布 荷 重	X	I	-0.2053	-0.0916	-0.0229	0.0269	0.0269	0.0220	0
			II	-0.1269	-0.0538	-0.0124	0.0131	0.0131	0.0098	0
			III	0	-0.0034	-0.0122	-0.0301	-0.0301	-0.0389	0
		Y	I	-0.0342	-0.0079	0.0203	0.0688	0.0688	0.0866	0.1005
			II	-0.0212	-0.0051	0.0093	0.0293	0.0293	0.0356	0.0410
			III	0	-0.0205	-0.0733	-0.1806	-0.1806	-0.2334	-0.2818
	三 角 形 分 布 荷 重	X	I	-0.0858	-0.0267	0.0040	0.0144	0.0144	0.0078	0
			II	-0.0594	-0.0149	0.0051	0.0084	0.0084	0.0035	0
			III	0	-0.0024	-0.0059	-0.0095	-0.0095	-0.0102	0
		Y	I	-0.0143	-0.0021	0.0082	0.0212	0.0212	0.0246	0.0273
			II	-0.0099	-0.0006	0.0059	0.0100	0.0100	0.0097	0.0098
			III	0	-0.0143	-0.0356	-0.0570	-0.0570	-0.0615	-0.0613

표(3-1) 3변고정 1변자유판의 계산수표(x방향 6등분, y방향 4등분)

(b) $\lambda=0.75, 1.00, 1.25$

λ	荷重	Bending Moment 계수	座標	1	2	3	4	5	6	7
0.75	等分布荷重	X	I	-0.0990	-0.0258	0.0080	0.0197	0.0198	0.0132	0
			II	-0.0602	-0.0145	0.0049	0.0103	0.0088	0.0048	0
			III	0	-0.0035	-0.0101	-0.0156	-0.0195	-0.0227	0
		Y	I	-0.0165	0.0032	0.0236	0.0406	0.0531	0.0619	0.0688
			II	-0.0100	0.0009	0.0093	0.0144	0.0173	0.0189	0.0205
			III	0	-0.0209	-0.0606	-0.0939	-0.1172	-0.1361	-0.1477
	三角形分布荷重	X	I	-0.0519	-0.0067	0.0110	0.0137	0.0095	0.0038	0
			II	-0.0348	-0.0030	0.0075	0.0080	0.0048	0.0013	0
			III	0	-0.0024	-0.0053	-0.0066	-0.0065	-0.0058	0
		Y	I	-0.0087	0.0020	0.0105	0.0155	0.0173	0.0174	0.0175
			II	-0.0058	0.0016	0.0059	0.0070	0.0061	0.0047	0.0037
			III	0	-0.0143	-0.0317	-0.0394	-0.0389	-0.0347	-0.0260
1.00	等分布荷重	X	I	-0.0565	-0.0063	0.0106	0.0133	0.0110	0.0069	0
			II	-0.0343	-0.0034	0.0058	0.0064	0.0044	0.0020	0
			III	0	-0.0032	-0.0080	-0.0111	-0.0127	-0.0137	0
		Y	I	-0.0094	0.0059	0.0203	0.0304	0.0364	0.0398	0.0428
			II	-0.0057	0.0023	0.0075	0.0098	0.0105	0.0108	0.0111
			III	0	-0.0195	-0.0478	-0.0655	-0.0763	-0.0822	-0.0838
	三角形分布荷重	X	I	-0.0350	-0.0001	0.0097	0.0089	0.0049	0.0013	0
			II	-0.0229	0.0006	0.0058	0.0047	0.0022	0.0002	0
			III	0	-0.0023	-0.0045	-0.0050	-0.0044	-0.0033	0
		Y	I	-0.0058	0.0035	0.0103	0.0129	0.0124	0.0106	0.0094
			II	-0.0038	0.0021	0.0049	0.0049	0.0038	0.0024	0.0013
			III	0	-0.0137	-0.0270	-0.0300	-0.0261	-0.0196	-0.0833
1.25	等分布荷重	X	I	-0.0567	0	0.0133	0.0128	0.0096	0.0061	0
			II	-0.0344	0.0003	0.0069	0.0056	0.0033	0.0014	0
			III	0	-0.0046	-0.0098	-0.0125	-0.0135	-0.0139	0
		Y	I	-0.0095	0.0098	0.0261	0.0354	0.0395	0.0413	0.0435
			II	-0.0057	0.0039	0.0090	0.0106	0.0107	0.0106	0.0107
			III	0	-0.0273	-0.0587	-0.0749	-0.0810	-0.0835	-0.0833
	三角形分布荷重	X	I	-0.0391	0.0035	0.0112	0.0083	0.0038	0.0005	0
			II	-0.0251	0.0026	0.0063	0.0041	0.0014	-0.0002	0
			III	0	-0.0033	-0.0059	-0.0059	-0.0047	-0.0030	0
		Y	I	-0.0065	0.0064	0.0146	0.0162	0.0137	0.0101	0.0079
			II	-0.0042	0.0033	0.0060	0.0054	0.0038	0.0021	0.0008
			III	0	-0.0199	-0.0352	-0.0356	-0.0279	-0.0183	-0.0078

표(3-1) 3변고정 1변자유판의 계산수표(x방향 6등분, y방향 4등분)

(c) $\lambda=1.50, 1.75, 2.00$

λ	荷重	Bending Moment 계수	座標	1	2	3	4	5	6	7
1.50	等分布荷重	X	I	-0.0568	0.0048	0.0139	0.0113	0.0083	0.0058	0
			II	-0.0344	0.0029	0.0068	0.0045	0.0025	0.0011	0
			III	0	-0.0058	-0.0112	-0.0133	-0.0138	-0.0139	0
		Y	I	-0.0095	0.0136	0.0307	0.0384	0.0409	0.0416	0.0434
			II	-0.0057	0.0053	0.0100	0.0108	0.0106	0.0104	0.0105
			III	0	-0.0350	-0.0669	-0.0797	-0.0829	-0.0835	-0.0834
	三角形分布荷重	X	I	-0.0420	0.0065	0.0114	0.0071	0.0029	0.0001	0
			II	-0.0266	0.0042	0.0060	0.0031	0.0009	-0.0004	0
			III	0	-0.0044	-0.0070	-0.0065	-0.0047	-0.0028	0
		Y	I	-0.0070	0.0094	0.0183	0.0184	0.0142	0.0094	0.0065
			II	-0.0044	0.0045	0.0067	0.0056	0.0037	0.0019	0.0006
			III	0	-0.0263	-0.0419	-0.0390	-0.0284	-0.0168	-0.0060
1.75	等分布荷重	X	I	-0.0568	0.0082	0.0135	0.0099	0.0075	0.0058	0
			II	-0.0344	0.0047	0.0062	0.0035	0.0020	0.0010	0
			III	0	-0.0070	-0.0122	-0.0137	-0.0139	-0.0139	0
		Y	I	-0.0095	0.0172	0.0342	0.0402	0.0414	0.0415	0.0433
			II	-0.0057	0.0065	0.0105	0.0108	0.0105	0.0104	0.0104
			III	0	-0.0421	-0.0730	-0.0823	-0.0836	-0.0833	-0.0840
	三角形分布荷重	X	I	-0.0441	0.0088	0.0108	0.0059	0.0024	0.0001	0
			II	-0.0277	0.0053	0.0053	0.0023	0.0006	-0.0004	0
			III	0	-0.0054	-0.0078	-0.0068	-0.0047	-0.0026	0
		Y	I	-0.0074	0.0124	0.0212	0.0197	0.0142	0.0087	0.0055
			II	-0.0046	0.0054	0.0071	0.0055	0.0036	0.0018	0.0004
			III	0	-0.0324	-0.0470	-0.0410	-0.0283	-0.0155	-0.0049
2.00	等分布荷重	X	I	-0.0568	0.0107	0.0125	0.0087	0.0071	0.0060	0
			II	-0.0344	0.0058	0.0054	0.0028	0.0018	0.0011	0
			III	0	-0.0081	-0.0129	-0.0139	-0.0140	-0.0139	0
		Y	I	-0.0095	0.0205	0.0367	0.0411	0.0416	0.0415	0.0432
			II	-0.0057	0.0076	0.0107	0.0107	0.0105	0.0103	0.0104
			III	0	-0.0487	-0.0773	-0.0836	-0.0838	-0.0833	-0.0846
	三角形分布荷重	X	I	-0.0457	0.0105	0.0099	0.0050	0.0022	-0.0002	0
			II	-0.0285	0.0060	0.0045	0.0017	0.0004	-0.0003	0
			III	0	-0.0064	-0.0085	-0.0070	-0.0047	-0.0024	0
		Y	I	-0.0076	0.0153	0.0234	0.0204	0.0142	0.0082	0.0047
			II	-0.0048	0.0063	0.0073	0.0055	0.0035	0.0017	0.0004
			III	0	-0.0382	-0.0508	-0.0420	-0.0280	-0.0145	-0.0041

표(3-1) 3변고정 1변자유판의 계산수표(x방향 6등분, y방향 4등분)

(d) $\lambda=2.25, 2.50, 2.75$

λ	荷重	Bending Moment 계수	座標	1	2	3	4	5	6	7
2.25	等分布荷重	X	I	-0.0567	0.0122	0.0114	0.0080	0.0070	0.0062	0
			II	-0.0343	0.0065	0.0046	0.0023	0.0017	0.0012	0
			III	0	-0.0091	-0.0134	-0.0140	-0.0140	-0.0139	0
		Y	I	-0.0095	0.0235	0.0386	0.0416	0.0416	0.0414	0.0432
			II	-0.0057	0.0084	0.0108	0.0106	0.0104	0.0103	0.0105
			III	0	-0.0546	-0.0802	-0.0842	-0.0839	-0.0834	-0.0852
	三角形分布荷重	X	I	-0.0469	0.0117	0.0089	0.0043	0.0021	0.0003	0
			II	-0.0291	0.0064	0.0038	0.0013	0.0004	-0.0002	0
			III	0	-0.0072	-0.0089	-0.0071	-0.0046	-0.0023	0
		Y	I	-0.0078	0.0179	0.0250	0.0208	0.0141	0.0078	0.0042
			II	-0.0049	0.0070	0.0074	0.0054	0.0035	0.0017	0.0003
			III	0	-0.0434	-0.0534	-0.0424	-0.0277	-0.0137	-0.0034
2.50	等分布荷重	X	I	-0.0567	0.0132	0.0104	0.0075	0.0069	0.0063	0
			II	-0.0342	0.0067	0.0039	0.0020	0.0017	0.0013	0
			III	0	-0.0100	-0.0137	-0.0141	-0.0140	-0.0139	0
		Y	I	-0.0094	0.0262	0.0398	0.0417	0.0416	0.0414	0.0432
			II	-0.0057	0.0090	0.0109	0.0106	0.0104	0.0103	0.0105
			III	0	-0.0598	-0.0822	-0.0844	-0.0840	-0.0837	-0.0858
	三角形分布荷重	X	I	-0.0478	0.0123	0.00479	0.0039	0.0021	0.0005	0
			II	-0.0296	0.0065	0.0031	0.0011	0.0004	-0.0001	0
			III	0	-0.0080	-0.0092	-0.0071	-0.0046	-0.0022	0
		Y	I	-0.0080	0.0204	0.0262	0.0209	0.0140	0.0075	0.0038
			II	-0.0049	0.0075	0.0074	0.0053	0.0034	0.0017	0.0003
			III	0	-0.0482	-0.0553	-0.0426	-0.0275	-0.0131	-0.0027
2.75	等分布荷重	X	I	-0.0566	0.0136	0.0096	0.0072	0.0069	0.0065	0
			II	-0.0341	0.0067	0.0033	0.0018	0.0016	0.0014	0
			III	0	-0.0107	-0.0139	-0.0141	-0.0140	-0.0140	0
		Y	I	-0.0094	0.0586	0.0407	0.0418	0.0416	0.0414	0.0432
			II	-0.0057	0.0096	0.0108	0.0105	0.0104	0.0103	0.0105
			III	0	-0.0644	-0.0836	-0.0845	-0.0841	-0.0840	-0.0863
	三角形分布荷重	X	I	-0.0486	0.0126	0.0071	0.0037	0.0021	0.0006	0
			II	-0.0299	0.0064	0.0026	0.0009	0.0005	0	0
			III	0	-0.0087	-0.0094	-0.0071	-0.0046	-0.0021	0
		Y	I	-0.0081	0.0226	0.0269	0.0209	0.0139	0.0074	0.0034
			II	-0.0050	0.0080	0.0073	0.0053	0.0034	0.0017	0.0003
			III	0	-0.0524	-0.0566	-0.0427	-0.0273	-0.0126	-0.0021

표(3-1) 3변고정 1변자유판의 계산수표(x방향 6등분, y방향 4등분)

(e) $\lambda=3.00, 3.25, 3.50$

λ	荷重	Bending Moment 계수	座標	1	2	3	4	5	6	7
3.00	等分布荷重	X	I	-0.0565	0.0137	0.0089	0.0070	0.0069	0.0066	0
			II	-0.0339	0.0065	0.0028	0.0017	0.0016	0.0015	0
			III	0	-0.0114	-0.0141	-0.0141	-0.0140	-0.141	0
		Y	I	-0.0094	0.0308	0.0412	0.0418	0.0416	0.0414	0.0432
			II	-0.0057	0.0100	0.0108	0.0105	0.0104	0.0103	0.0105
			III	0	-0.0685	-0.0845	-0.0845	-0.0843	-0.0843	-0.0868
	三角形分布荷重	X	I	-0.0492	0.0126	0.0064	0.0036	0.0021	0.0007	0
			II	-0.0301	0.0062	0.0021	0.0009	0.0005	0.0001	0
			III	0	-0.0094	-0.0096	-0.0071	-0.0045	-0.0020	0
		Y	I	-0.0082	0.0245	0.0274	0.0209	0.0139	0.0072	0.0031
			II	-0.0050	0.0084	0.0073	0.0053	0.0034	0.0017	0.0003
			III	0	-0.0561	-0.0576	-0.0428	-0.0272	-0.0121	-0.0015
3.25	等分布荷重	X	I	-0.0565	0.0136	0.0083	0.0070	0.0068	0.0067	0
			II	-0.0338	0.0062	0.0025	0.0017	0.0015	0.0015	0
			III	0	-0.0120	-0.0142	-0.0141	-0.0141	-0.0141	0
		Y	I	-0.0094	0.0326	0.0415	0.0418	0.0416	0.0414	0.0432
			II	-0.0056	0.0103	0.0107	0.0105	0.0104	0.0104	0.0105
			III	0	-0.0720	-0.0851	-0.0846	-0.0845	-0.0847	-0.0872
	三角形分布荷重	X	I	-0.0496	0.0123	0.0059	0.0035	0.0022	0.0008	0
			II	-0.0302	0.0058	0.0018	0.0008	0.0005	0.0002	0
			III	0	-0.0099	-0.0097	-0.0071	-0.0045	-0.0019	0
		Y	I	-0.0083	0.0263	0.0277	0.0209	0.0139	0.0071	0.0029
			II	-0.0050	0.0086	0.0072	0.0052	0.0034	0.0017	0.0003
			III	0	-0.0594	-0.0583	-0.0428	-0.0271	-0.0116	-0.0008
3.50	等分布荷重	X	I	-0.0564	0.0132	0.0079	0.0069	0.0068	0.0067	0
			II	-0.0335	0.0058	0.0022	0.0016	0.0015	0.0015	0
			III	0	-0.0125	-0.0143	-0.0141	-0.0141	-0.0142	0
		Y	I	-0.0094	0.0343	0.0417	0.0417	0.0416	0.0415	0.0432
			II	-0.0056	0.0105	0.0107	0.0104	0.0104	0.0104	0.0105
			III	0	-0.0750	-0.0855	-0.0846	-0.0847	-0.0851	-0.0877
	三角形分布荷重	X	I	-0.0500	0.0119	0.0055	0.0035	0.0022	0.0009	0
			II	-0.0303	0.0054	0.0015	0.0008	0.0005	0.0003	0
			III	0	-0.0104	-0.0098	-0.0072	-0.0045	-0.0019	0
		Y	I	-0.0083	0.0278	0.0279	0.0209	0.0139	0.0071	0.0027
			II	-0.0050	0.0088	0.0072	0.0052	0.0034	0.0017	0.0003
			III	0	-0.0622	-0.0588	-0.0429	-0.0269	-0.0112	-0.0002

표(3-1) 3변고정 1변자유판의 계산수표(x방향 6등분, y방향 4등분)

(f) $\lambda=3.75, 4.00, 4.25$

λ	荷重	Bending Moment 계수	座標	1	2	3	4	5	6	7
3.75	等分布荷重	X	I	-0.0564	0.0127	0.0076	0.0069	0.0068	0.0068	0
			II	-0.0331	0.0053	0.0020	0.0016	0.0014	0.0014	0
			III	0	-0.0129	-0.0143	-0.0141	-0.0141	-0.0143	0
		Y	I	-0.0094	0.0356	0.0418	0.0417	0.0416	0.0415	0.0434
			II	-0.0055	0.0106	0.0106	0.0104	0.0104	0.0104	0.0104
			III	0	-0.0775	-0.0859	-0.0848	-0.0848	-0.0856	-0.0881
	三角形分布荷重	X	I	-0.0505	0.0114	0.0052	0.0034	0.0022	0.0010	0
			II	-0.0302	0.0049	0.0013	0.0008	0.0005	0.0004	0
			III	0	-0.0108	-0.0099	-0.0072	-0.0045	-0.0018	0
		Y	I	-0.0084	0.0291	0.0280	0.0209	0.0138	0.0070	0.0025
			II	-0.0050	0.0089	0.0071	0.0052	0.0034	0.0017	0.0003
			III	0	-0.0647	-0.0593	-0.0431	-0.0268	-0.0107	0.0005
4.00	等分布荷重	X	I	-0.0568	0.0121	0.0075	0.0069	0.0067	0.0068	0
			II	-0.0324	0.0048	0.0019	0.0016	0.0014	0.0014	0
			III	0	-0.0133	-0.0144	-0.0142	-0.0142	-0.0143	0
		Y	I	-0.0095	0.0368	0.0419	0.0417	0.0417	0.0415	0.0433
			II	-0.0054	0.0107	0.0106	0.0104	0.0104	0.0104	0.0105
			III	0	-0.0797	-0.0862	-0.0850	-0.0850	-0.0860	-0.0886
	三角形分布荷重	X	I	-0.0505	0.0108	0.0050	0.0034	0.0022	0.0011	0
			II	-0.0302	0.0044	0.0011	0.0007	0.0005	0.0005	0
			III	0	-0.0111	-0.0100	-0.0072	-0.0044	-0.0017	0
		Y	I	-0.0084	0.0302	0.0280	0.0209	0.0138	0.0069	0.0023
			II	-0.0050	0.0090	0.0071	0.0052	0.0034	0.0017	0.0003
			III	0	-0.0668	-0.0598	-0.0432	-0.0266	-0.0103	0.0012
4.25	等分布荷重	X	I	-0.0560	0.0115	0.0073	0.0069	0.0067	0.0068	0
			II	-0.0325	0.0044	0.0018	0.0015	0.0013	0.0013	0
			III	0	-0.0136	-0.0144	-0.0142	-0.0142	-0.0144	0
		Y	I	-0.0093	0.0378	0.0419	0.0417	0.0417	0.0416	0.0433
			II	-0.0054	0.0108	0.0106	0.0104	0.0104	0.0104	0.0105
			III	0	-0.0816	-0.0866	-0.0852	-0.0852	-0.0865	-0.0891
	三角形分布荷重	X	I	-0.0507	0.0102	0.0049	0.0034	0.0021	0.0012	0
			II	-0.0301	0.0039	0.0010	0.0007	0.0005	0.0007	0
			III	0	-0.0114	-0.0100	-0.0072	-0.0044	-0.0016	0
		Y	I	-0.0085	0.0311	0.0280	0.0209	0.0138	0.0069	0.0022
			II	-0.0050	0.0090	0.0070	0.0052	0.0034	0.0017	0.0004
			III	0	-0.0687	-0.0603	-0.0434	-0.0265	-0.0098	0.0018

표(3-1) 3변고정 1변자유판의 계산수표(x방향 6등분, y방향 4등분)

(g) $\lambda=4.50, 4.75, 5.00$

λ	荷重	Bending Moment 계수	座標	1	2	3	4	5	6	7
4.50	等分布荷重	X	I	-0.0560	0.0109	0.0072	0.0068	0.0066	0.0067	0
			II	-0.0322	0.0039	0.0017	0.0015	0.0013	0.0013	0
			III	0	-0.0139	-0.0145	-0.0142	-0.0142	-0.0145	0
		Y	I	-0.0093	0.0387	0.0419	0.0417	0.0417	0.0416	0.0435
			II	-0.0054	0.0108	0.0105	0.0104	0.0103	0.0104	0.0106
			III	0	-0.0832	-0.0869	-0.0854	-0.0854	-0.0869	-0.0896
	三角形分布荷重	X	I	-0.0510	0.0096	0.0048	0.0034	0.0021	0.0012	0
			II	-0.0300	0.0034	0.0009	0.0006	0.0005	0.0008	0
			III	0	-0.0117	-0.0101	-0.0073	-0.0044	-0.0016	0
		Y	I	-0.0085	0.0319	0.0280	0.0209	0.0138	0.0068	0.0021
			II	-0.0050	0.0090	0.0070	0.0052	0.0034	0.0017	0.0005
			III	0	-0.0703	-0.0608	-0.0436	-0.0263	-0.0093	0.0025
4.75	等分布荷重	X	I	-0.0555	0.0103	0.0072	0.0068	0.0065	0.0067	0
			II	-0.0315	0.0034	0.0016	0.0014	0.0012	0.0012	0
			III	0	-0.0141	-0.0146	-0.0143	-0.0143	-0.0146	0
		Y	I	-0.0092	0.0394	0.0419	0.0417	0.0417	0.0417	0.0433
			II	-0.0052	0.0107	0.0105	0.0104	0.0103	0.0103	0.0104
			III	0	-0.0846	-0.0873	-0.0856	-0.0856	-0.0874	-0.0901
	三角形分布荷重	X	I	-0.0508	0.0090	0.0047	0.0034	0.0021	0.0014	0
			II	-0.0296	0.0029	0.0007	0.0006	0.0006	0.0009	0
			III	0	-0.0120	-0.0102	-0.0073	-0.0044	-0.0015	0
		Y	I	-0.0085	0.0326	0.0281	0.0209	0.0138	0.0068	0.0020
			II	-0.0049	0.0090	0.0070	0.0052	0.0034	0.0018	0.0006
			III	0	-0.0717	-0.0613	-0.0438	-0.0261	-0.0088	0.0032
5.00	等分布荷重	X	I	-0.0552	0.0097	0.0071	0.0068	0.0065	0.0066	0
			II	-0.0309	0.0030	0.0015	0.0014	0.0011	0.0011	0
			III	0	-0.0143	-0.0146	-0.0143	-0.0143	-0.0147	0
		Y	I	-0.0092	0.0399	0.0419	0.0417	0.0417	0.0417	0.0433
			II	-0.0052	0.0107	0.0105	0.0103	0.0103	0.0103	0.0103
			III	0	-0.0858	-0.0877	-0.0858	-0.0858	-0.0879	-0.0906
	三角形分布荷重	X	I	-0.0508	0.0084	0.0046	0.0033	0.0021	0.0015	0
			II	-0.0292	0.0025	0.0006	0.0006	0.0006	0.0010	0
			III	0	-0.0122	-0.0103	-0.0073	-0.0043	-0.0014	0
		Y	I	-0.0085	0.0331	0.0281	0.0209	0.0138	0.0068	0.0019
			II	-0.0049	0.0090	0.0069	0.0052	0.0034	0.0018	0.0007
			III	0	-0.0729	-0.0619	-0.0440	-0.0259	-0.0083	0.0039

표(3-2) 3변고정 1변자유판의 계산수표(x방향 8등분, y방향 4등분)

(a) $\lambda=0.30, 0.40, 0.50$

λ	荷重	Bending Moment 계수	座標	1	2	3	4	5	6	7	9	10
0.30	等分布荷重	X	I	-0.3819	-0.2648	-0.1704	-0.0972	-0.0434	-0.0078	0.0109	0.0133	0
			II	0.2656	-0.1754	-0.1074	-0.0576	-0.0230	-0.0012	0.0094	0.0098	0
			III	0	-0.0014	-0.0075	-0.0157	-0.0249	-0.0346	-0.0451	-0.0582	0
		Y	I	-0.0636	-0.0419	-0.0202	0.0007	0.0204	0.0382	0.0536	0.0665	0.0762
			II	-0.0443	-0.0266	-0.0089	0.0077	0.0226	0.0353	0.0459	0.0545	0.0614
			III	0	-0.0086	-0.0447	-0.0945	-0.1495	-0.2074	-0.2708	-0.3493	-0.4201
	三角形分布荷重	X	I	-0.1353	-0.0802	-0.0407	-0.0145	0.0009	0.0078	0.0086	0.0053	0
			II	-0.1021	-0.0548	-0.0233	-0.0043	0.0053	0.0083	0.0071	0.0037	0
			III	0	-0.0014	-0.0042	-0.0069	-0.0092	-0.0111	-0.0129	-0.0151	0
		Y	I	-0.0225	-0.0128	-0.0045	0.0023	0.0078	0.0122	0.0156	0.084	0.0207
			II	-0.0170	-0.0082	-0.0009	0.0049	0.0091	0.0120	0.0139	0.0152	0.0164
			III	0	-0.0083	-0.0251	-0.0416	-0.0554	-0.0666	-0.0773	-0.0907	-0.0981
0.40	等分布荷重	X	I	-0.2840	-0.1787	-0.0997	-0.0430	-0.0051	0.0167	0.0243	0.0187	0
			II	-0.1819	-0.1099	-0.0589	-0.0242	-0.0024	0.0091	0.0127	0.0096	0
			III	0	-0.0016	-0.0076	-0.0154	-0.0236	-0.0319	-0.0406	-0.0511	0
		Y	I	-0.0473	-0.0262	-0.0037	0.0186	0.0397	0.0587	0.0752	0.0892	0.1004
			II	-0.0303	-0.0157	-0.0014	0.0115	0.0229	0.0325	0.0404	0.0468	0.0523
			III	0	-0.0097	-0.0457	-0.0925	-0.1419	-0.1914	-0.2434	-0.3064	-0.3553
	三角形分布荷重	X	I	-0.1084	-0.0566	-0.0215	0	0.0109	0.0139	0.0117	0.0064	0
			II	-0.0770	-0.0357	-0.0102	0.0037	0.0094	0.0097	0.0070	0.0031	0
			III	0	-0.0014	-0.0042	-0.0068	-0.0089	-0.0104	-0.0117	-0.0132	0
		Y	I	-0.0181	-0.0084	0.0002	0.0075	0.0135	0.0182	0.0219	0.0249	0.0274
			II	-0.0128	-0.0049	0.0017	0.0065	0.0096	0.0114	0.0122	0.0127	0.0133
			III	0	-0.0085	-0.0253	-0.0411	-0.0533	-0.0623	-0.0700	-0.0793	-0.0810
0.50	等分布荷重	X	I	-0.2053	-0.1153	-0.0526	-0.0112	0.0136	0.0254	0.0265	0.0181	0
			II	-0.1269	-0.0686	-0.0299	-0.0058	0.0075	0.0127	0.0123	0.0080	0
			III	0	-0.0018	-0.0076	-0.0146	-0.0216	-0.0281	-0.0345	-0.0421	0
		Y	I	-0.0342	-0.0149	0.0062	0.0271	0.0465	0.0637	0.0782	0.0904	0.1005
			II	-0.0212	-0.0090	0.0024	0.0124	0.0207	0.0273	0.0327	0.0370	0.0410
			III	0	-0.108	-0.0457	-0.0878	-0.1294	-0.1684	-0.2072	-0.2527	-0.2818
	三角形分布荷重	X	I	-0.0858	-0.0385	-0.0084	0.0083	0.0151	0.0153	0.0115	0.0058	0
			II	-0.0594	-0.0233	-0.0026	0.0075	0.0106	0.0094	0.0060	0.0024	0
			III	0	-0.0015	-0.0042	-0.0066	-0.0083	-0.0093	-0.0100	-0.0108	0
		Y	I	-0.0143	-0.0050	0.0033	0.0104	0.0160	0.0201	0.0231	0.0253	0.0273
			II	-0.0099	-0.0027	0.0031	0.0070	0.0091	0.0099	0.0099	0.0097	0.0098
			III	0	-0.0088	-0.0253	-0.0398	-0.0499	-0.0561	-0.0602	-0.0648	-0.0613

표(3-2) 3변고정 1변자유판의 계산수표(x방향 8등분, y방향 4등분)

(b) $\lambda=0.75, 1.00, 1.25$

λ	荷 重	Bending Moment 계수	座 標	1	2	3	4	5	6	7	8	9
0.75	等 分 布 荷 重	X	I	-0.0990	-0.0395	-0.0053	0.0124	0.0197	0.0205	0.0172	0.0106	0
			II	-0.0602	0.0229	-0.0025	0.0071	0.0103	0.0096	0.0070	0.0037	0
			III	0	-0.0020	-0.0068	-0.0117	-0.0156	-0.0187	-0.0213	-0.0240	0
		Y	I	-0.0165	-0.0020	0.0137	0.0283	0.0406	0.0504	0.0578	0.0637	0.0688
			II	-0.0100	-0.0017	0.0055	0.0109	0.0144	0.0167	0.0182	0.0192	0.0205
			III	0	-0.0121	-0.0410	-0.0700	-0.0939	-0.1123	-0.1276	-0.1442	-0.1477
	三 角 形 分 布 荷 重	X	I	-0.0519	-0.0149	0.0047	0.0127	0.0137	0.0109	0.0066	0.0025	0
			II	-0.0348	-0.0083	0.0040	0.0082	0.0080	0.0058	0.0030	0.0007	0
			III	0	-0.0015	-0.0040	-0.0057	-0.0066	-0.0066	-0.0063	-0.0059	0
		Y	I	-0.0087	-0.0006	0.0066	0.0121	0.0155	0.0171	0.0175	0.0173	0.0175
			II	-0.0058	0	0.0042	0.0064	0.0070	0.0065	0.0054	0.0044	0.0037
			III	0	-0.0091	-0.0238	-0.0344	-0.0394	-0.0399	-0.0378	-0.0351	-0.0260
1.00	等 分 布 荷 重	X	I	-0.0565	-0.0147	0.0048	0.0121	0.0133	0.0118	0.0092	0.0056	0
			II	-0.0343	-0.0083	0.0029	0.0064	0.0064	0.0050	0.0032	0.0015	0
			III	0	-0.0020	-0.0058	-0.0089	-0.0111	-0.0124	-0.0133	-0.0143	0
		Y	I	-0.0094	0.0018	0.0135	0.0233	0.0304	0.0352	0.0383	0.0405	0.0428
			II	-0.0057	0.0005	0.0053	0.0083	0.0098	0.0104	0.0107	0.0108	0.0111
			III	0	-0.0119	-0.0345	-0.0535	-0.0665	-0.0745	-0.0799	-0.0856	-0.0838
	三 角 形 分 布 荷 重	X	I	-0.0350	-0.0057	0.0068	0.0101	0.0089	0.0060	0.0030	0.0006	0
			II	-0.0229	-0.0029	0.0045	0.0058	0.0047	0.0029	0.0011	0.0001	0
			III	0	-0.0015	-0.0036	-0.0047	-0.0050	-0.0046	-0.0039	-0.0032	0
		Y	I	-0.0058	0.0013	0.0074	0.0113	0.0129	0.0127	0.0115	0.0102	0.0094
			II	-0.0038	0.0009	0.0039	0.0051	0.0049	0.0041	0.0031	0.0020	0.0013
			III	0	-0.0090	-0.0213	-0.0284	-0.0300	-0.0277	-0.0236	-0.0191	-0.0108
1.25	等 分 布 荷 重	X	I	-0.0567	-0.0083	0.0096	0.0138	0.0128	0.0104	0.0080	0.0051	0
			II	-0.0344	-0.0045	0.0054	0.0069	0.0056	0.0039	0.0023	0.0010	0
			III	0	-0.0029	-0.0075	-0.107	-0.0125	-0.0133	-0.0138	-0.0143	0
		Y	I	-0.0095	0.0049	0.0188	0.0290	0.0354	0.0388	0.0406	0.0417	0.0435
			II	-0.0057	0.0019	0.0071	0.0096	0.0106	0.0107	0.0106	0.0106	0.0107
			III	0	-0.0174	-0.0447	-0.0641	-0.0749	-0.0799	-0.0826	-0.0859	-0.0833
	三 角 形 分 布 荷 重	X	I	-0.0391	-0.0025	0.0097	0.0109	0.0083	0.0049	0.0020	0	0
			II	-0.0251	-0.0009	0.0058	0.0059	0.0041	0.0021	0.0005	-0.0004	0
			III	0	-0.0022	-0.0048	-0.0060	-0.0059	-0.0051	-0.0040	-0.0029	0
		Y	I	-0.0065	0.0033	0.0114	0.0155	0.0162	0.0145	0.0119	0.0094	0.0079
			II	-0.0042	0.0019	0.0052	0.0060	0.0054	0.0042	0.0029	0.0017	0.0008
			III	0	-0.0135	-0.0291	-0.0361	-0.0356	-0.0305	-0.0239	-0.0172	-0.0078

표(3-2) 3변고정 1변자유판의 계산수표(x방향 8등분, y방향 4등분)

(c) $\lambda=1.50, 1.75, 2.00$

λ	荷 重	Bending Moment 계수	座 標	1	2	3	4	5	6	7	8	9
1.50	等 分 布 荷 重	X	I	-0.0568	-0.0030	0.0123	0.0113	0.0113	0.0090	0.0071	0.0050	0
			II	-0.0344	-0.0015	0.0065	0.0045	0.0045	0.0030	0.0018	0.0008	0
			III	0	-0.0038	-0.0089	-0.0133	-0.0133	-0.0137	-0.0139	-0.0142	0
		Y	I	-0.0095	0.0079	0.0235	0.0384	0.0384	0.0406	0.0413	0.0418	0.0434
			II	-0.0057	0.0031	0.0084	0.0108	0.0108	0.0107	0.0105	0.0104	0.0105
			III	0	-0.0231	-0.0534	-0.0797	-0.0797	-0.0823	-0.0831	-0.0852	-0.0834
	三 角 形 分 布 荷 重	X	I	-0.0420	0.0007	0.0114	0.0071	0.0071	0.0039	0.0014	-0.0003	0
			II	-0.0266	0.0009	0.0064	0.0031	0.0031	0.0014	0.0001	-0.0005	0
			III	0	-0.0030	-0.0060	-0.0065	-0.0065	-0.0053	-0.0039	-0.0026	0
		Y	I	-0.0070	0.0056	0.0151	0.0184	0.0184	0.0154	0.0117	0.0084	0.0065
			II	-0.004	0.0029	0.0062	0.0056	0.0056	0.0042	0.0027	0.0015	0.0006
			III	0	-0.0182	-0.0361	-0.0390	-0.0390	-0.0317	-0.0234	-0.0155	-0.0060
1.75	等 分 布 荷 重	X	I	-0.0568	0.0013	0.0135	0.0099	0.0099	0.0080	0.0068	0.0051	0
			II	-0.0344	0.0009	0.0069	0.0035	0.0035	0.0024	0.0016	0.0008	0
			III	0	-0.0048	-0.0101	-0.0137	-0.0137	-0.0138	-0.0138	-0.0141	0
		Y	I	-0.0095	0.0108	0.0274	0.0402	0.0402	0.0413	0.0415	0.0416	0.0433
			II	-0.0057	0.0043	0.0093	0.0108	0.0108	0.0106	0.0104	0.0104	0.0104
			III	0	-0.0287	-0.0605	-0.0823	-0.0823	-0.0831	-0.0830	-0.0845	-0.0840
	三 角 形 分 布 荷 重	X	I	-0.0441	0.0035	0.0120	0.0059	0.0059	0.0032	0.0012	-0.0003	0
			II	-0.0277	0.0025	0.0064	0.0023	0.0023	0.0010	0	-0.0005	0
			III	0	-0.0039	-0.0070	-0.0068	-0.0068	-0.0054	-0.0038	-0.0024	0
		Y	I	-0.0074	0.0081	0.0185	0.0197	0.0197	0.0157	0.0113	0.0076	0.0055
			II	-0.0046	0.0038	0.0070	0.0055	0.0055	0.0041	0.0026	0.0014	0.0004
			III	0	-0.0231	-0.0420	-0.0410	-0.0410	-0.0321	-0.0227	-0.0141	-0.0049
2.00	等 分 布 荷 重	X	I	-0.0568	0.0047	0.0138	0.0087	0.0087	0.0075	0.0067	0.0054	0
			II	-0.0344	0.0028	0.0067	0.0028	0.0028	0.0020	0.0016	0.0009	0
			III	01	-0.0057	-0.0110	-0.0139	-0.0139	-0.0139	-0.0138	-0.0140	0
		Y	I	-0.0095	0.0137	0.0307	0.0411	0.0411	0.0416	0.0415	0.0415	0.0432
			II	-0.0057	0.0053	0.0099	0.0107	0.0107	0.0105	0.0104	0.0103	0.0104
			III	0	-0.0340	-0.0662	-0.0836	-0.0836	-0.0832	-0.0827	-0.0841	-0.0846
	三 角 形 分 布 荷 重	X	I	-0.0457	0.0060	0.0120	0.0050	0.0050	0.0028	0.0012	-0.0002	0
			II	-0.0285	0.0038	0.0061	0.0017	0.0017	0.0007	0.0001	-0.0005	0
			III	0	-0.0046	-0.0078	-0.0070	-0.0070	-0.0054	-0.0037	-0.0022	0
		Y	I	-0.0076	0.0105	0.0214	0.0204	0.0204	0.0158	0.0110	0.0070	0.0047
			II	-0.0048	0.0047	0.0075	0.0055	0.0055	0.0040	0.0026	0.0013	0.0004
			III	0	-0.0279	-0.0468	-0.0420	-0.0420	-0.0322	-0.0223	-0.0132	-0.0041

표(3-2) 3변고정 1변자유판의 계산수표(x방향 8등분, y방향 4등분)

(d) $\lambda=2.25, 2.50, 2.75$

λ	荷重	Bending Moment 계수	座標	1	2	3	4	5	6	7	8	9
2.25	等分布荷重	X	I	-0.0567	0.0074	0.0135	0.0102	0.0080	0.0072	0.0068	0.0056	0
			II	-0.0343	0.0042	0.0062	0.0037	0.0023	0.0019	0.0017	0.0010	0
			III	0	-0.0065	-0.0118	-0.0137	-0.0140	-0.0138	-0.0137	-0.0140	0
		Y	I	-0.0095	0.0163	0.0334	0.0399	0.0416	0.0417	0.0415	0.0414	0.0432
			II	-0.0057	0.0062	0.0104	0.0108	0.0106	0.0105	0.0104	0.0103	0.0105
			III	0	-0.0390	-0.0706	-0.0820	-0.0842	-0.0831	-0.0824	-0.0838	-0.0852
	三角形分布荷重	X	I	-0.0469	0.0080	0.0116	0.0073	0.0043	0.0026	0.0013	-0.0001	0
			II	-0.0291	0.0048	0.0056	0.0029	0.0013	0.0007	0.0002	-0.0004	0
			III	0	-0.0054	-0.0084	-0.0084	-0.0071	-0.0054	-0.0037	0.0021	0
		Y	I	-0.0078	0.0128	0.0238	0.0245	0.0208	0.0158	0.0108	0.0065	0.0042
			II	-0.0049	0.0055	0.0078	0.0069	0.0054	0.0039	0.0026	0.0013	0.0003
			III	0	-0.0325	-0.0506	-0.0502	-0.0424	-0.0322	-0.0221	-0.0125	-0.0034
2.50	等分布荷重	X	I	-0.0567	0.0094	0.0128	0.0092	0.0075	0.0071	0.0069	0.0059	0
			II	-0.0342	0.0052	0.0056	0.0030	0.0020	0.0018	0.0017	0.0011	0
			III	0	-0.0073	-0.0123	-0.0139	-0.0141	-0.0138	-0.0137	-0.0139	0
		Y	I	-0.0094	0.0189	0.0356	0.0408	0.0417	0.0417	0.0415	0.0414	0.0432
			II	-0.0057	0.0070	0.0106	0.0108	0.0106	0.0104	0.0104	0.0103	0.0105
			III	0	-0.0437	-0.0739	-0.0832	-0.0844	-0.0829	-0.0822	-0.0836	-0.0858
	三角形分布荷重	X	I	-0.0478	0.0096	0.0109	0.0064	0.0039	0.0026	0.0014	0.0001	0
			II	-0.0296	0.0055	0.0051	0.0023	0.0011	0.0006	0.0002	-0.0003	0
			III	0	-0.0061	-0.0089	-0.0085	-0.0071	-0.0054	-0.0037	-0.0020	0
		Y	I	-0.0080	0.0151	0.0257	0.0253	0.0209	0.0157	0.0106	0.0062	0.0038
			II	-0.0049	0.0062	0.0080	0.0068	0.0053	0.0039	0.0026	0.0013	0.0003
			III	0	-0.0368	-0.0534	-0.0511	-0.0426	-0.0322	-0.0220	-0.0120	-0.0027
2.75	等分布荷重	X	I	-0.0566	0.0110	0.0121	0.0084	0.0072	0.0070	0.0069	0.0061	0
			II	-0.0341	0.0059	0.0050	0.0025	0.0018	0.0018	0.0018	0.0012	0
			III	0	-0.0080	-0.0127	-0.0140	-0.0141	-0.0138	-0.0137	-0.0139	0
		Y	I	-0.0094	0.0213	0.0373	0.0413	0.0418	0.0417	0.0415	0.0414	0.0432
			II	-0.0057	0.0077	0.0107	0.0107	0.0105	0.0104	0.0104	0.0403	0.0105
			III	0	-0.0480	-0.0763	-0.0839	-0.0845	-0.0827	-0.0820	-0.0836	-0.0863
	三角形分布荷重	X	I	-0.0486	0.0108	0.0101	0.0057	0.0037	0.0026	0.0015	0.0002	0
			II	-0.0299	0.0060	0.0045	0.0019	0.0009	0.0006	0.0003	-0.0002	0
			III	0	-0.0068	-0.0093	-0.0086	-0.0071	-0.0054	-0.0037	-0.0019	0
		Y	I	-0.0081	0.0173	0.0272	0.0257	0.0209	0.0157	0.0105	0.0060	0.0034
			II	-0.0050	0.0068	0.0081	0.0068	0.0053	0.0039	0.0026	0.0013	0.0003
			III	0	-0.0409	-0.0555	-0.0515	-0.0427	-0.0322	-0.0220	-0.0117	-0.0021

표(3-2) 3변고정 1변자유판의 계산수표(x방향 8등분, y방향 4등분)

(e) $\lambda=3.00, 3.25, 3.50$

λ	荷重	Bending Moment 계수	座標	1	2	3	4	5	6	7	8	9
3.00	等分布荷重	X	I	-0.0565	0.0121	0.0112	0.0079	0.0070	0.0070	0.0070	0.0063	0
			II	-0.0339	0.0064	0.0044	0.0022	0.0017	0.0018	0.0019	0.0013	0
			III	0	-0.0086	-0.0130	-0.0140	-0.0141	-0.0138	-0.0136	-0.0139	0
		Y	I	-0.0094	0.0235	0.0386	0.0416	0.0418	0.0417	0.0415	0.0414	0.0432
			II	-0.0057	0.0083	0.0108	0.0106	0.0105	0.0104	0.0104	0.0103	0.0105
			III	0	-0.0518	-0.0780	-0.0843	-0.0845	-0.0825	-0.0818	-0.0836	-0.0868
	三角形分布荷重	X	I	-0.0492	0.0116	0.0093	0.0052	0.0036	0.0026	0.0016	0.0003	0
			II	-0.0301	0.0063	0.0039	0.0016	0.0009	0.0006	0.0003	-0.0002	0
			III	0	-0.0074	-0.0095	-0.0086	-0.0071	-0.0054	-0.0037	-0.0019	0
		Y	I	-0.0082	0.0193	0.0284	0.0260	0.0209	0.0157	0.0105	0.0058	0.0031
			II	-0.0050	0.0073	0.0082	0.0067	0.0053	0.0039	0.0026	0.0013	0.0003
			III	0	-0.0446	-0.0569	-0.0516	-0.0428	-0.0323	0.0222	-0.0114	-0.0015
3.25	等分布荷重	X	I	-0.0565	0.0128	0.0104	0.0075	0.0070	0.0070	0.0071	0.0064	0
			II	-0.0338	0.0067	0.0039	0.0019	0.0017	0.0019	0.0019	0.0014	0
			III	0	-0.0092	-0.0132	-0.0141	-0.0141	-0.0137	-0.0136	-0.0140	0
		Y	I	-0.0094	0.0256	0.0395	0.0417	0.0418	0.0417	0.0416	0.0414	0.0432
			II	-0.0056	0.0088	0.0108	0.0106	0.0105	0.0104	0.0104	0.0103	0.0105
			III	0	-0.0553	-0.0791	-0.0845	-0.0846	-0.0823	-0.0816	-0.0837	-0.0872
	三角形分布荷重	X	I	-0.0496	0.0122	0.0085	0.0048	0.0035	0.0026	0.0017	0.0004	0
			II	-0.0302	0.0064	0.0034	0.0014	0.0008	0.0006	0.0004	-0.0001	0
			III	0	-0.0080	-0.0096	-0.0086	-0.0071	-0.0054	-0.0037	-0.0019	0
		Y	I	-0.00830.	0.0212	0.0293	0.0261	0.0209	0.0156	0.0105	0.0057	0.0029
			II	0050	0.0077	0.0082	0.0066	0.0052	0.0039	0.0026	0.0013	0.0003
			III	0	-0.0479	-0.0578	-0.0516	-0.0428	-0.0325	-0.0224	-0.0112	-0.0008
3.50	等分布荷重	X	I	-0.0564	0.0133	0.0097	0.0072	0.0069	0.0070	0.0071	0.0065	0
			II	0.0335	0.0068	0.0035	0.0018	0.0016	0.0019	0.0020	0.0015	0
			III	0	-0.0097	-0.0133	-0.0141	-0.141	-0.0137	-0.0136	-0.0140	0
		Y	I	-0.0094	0.0275	0.0402	0.0418	0.0417	0.0417	0.0416	0.0414	0.0432
			II	-0.0056	0.0092	0.0107	0.0105	0.0104	0.0104	0.0104	0.0104	0.0105
			III	0	-0.0583	-0.0798	-0.0846	-0.0847	-0.0821	-0.0814	-0.0838	-0.0877
	三角形分布荷重	X	I	-0.0500	0.0125	0.0079	0.0046	0.0035	0.0026	0.0017	0.0004	0
			II	-0.0303	0.0064	0.0030	0.0012	0.0008	0.0006	0.0004	-0.0001	0
			III	0	-0.0085	-0.0097	-0.0086	-0.0072	-0.0054	-0.0038	-0.0018	0
		Y	I	-0.0083	0.0230	0.0299	0.0261	0.0209	0.0156	0.0104	0.0056	0.0027
			II	-0.0050	0.0081	0.0081	0.0066	0.0052	0.0039	0.0026	0.0013	0.0003
			III	0	-0.0509	-0.0583	-0.0514	-0.0429	-0.0327	-0.0226	-0.0111	-0.0002

표(3-2) 3변고정 1변자유판의 계산수표(x방향 8등분, y방향 4등분)

(f) $\lambda=3.75, 4.00, 4.25$

λ	荷重	Bending Moment 계수	座標	1	2	3	4	5	6	7	8	9
3.75	等分布荷重	X	I	-0.0564	0.0135	0.0091	0.0070	0.0069	0.0071	0.0071	0.0066	0
			II	-0.0331	0.0068	0.0031	0.0016	0.0016	0.0019	0.0021	0.0015	0
			III	0	-0.0102	-0.0134	-0.0141	-0.0141	-0.0137	-0.0135	-0.0140	0
		Y	I	-0.0094	0.0292	0.0407	0.0418	0.0417	0.0417	0.0416	0.0414	0.0434
			II	-0.0055	0.0096	0.0107	0.0105	0.0104	0.0104	0.0104	0.0104	0.0104
			III	0	-0.0609	-0.0802	-0.0847	-0.0848	-0.0820	-0.0812	-0.0840	-0.0881
	三角形分布荷重	X	I	-0.0505	0.0126	0.0073	0.0045	0.0034	0.0027	0.0018	0.0005	0
			II	-0.0302	0.0063	0.0027	0.0012	0.0008	0.0006	0.0004	0	0
			III	0	-0.0089	-0.0097	-0.0085	-0.0072	-0.0055	-0.0038	-0.0018	0
		Y	I	-0.0084	0.0246	0.0304	0.0261	0.0209	0.0156	0.0104	0.0055	0.0025
			II	-0.0050	0.0084	0.0081	0.0065	0.0052	0.0039	0.0027	-0.0012	0.0003
			III	0	-0.0536	-0.0584	-0.0512	-0.0431	-0.0329	-0.0228	-0.0110	0.0005
4.00	等分布荷重	X	I	-0.0568	0.0135	0.0086	0.0069	0.0069	0.0071	0.0072	0.0067	0
			II	0.0324	0.0067	0.0028	0.0015	0.0016	0.0020	0.0021	0.0016	0
			III	0	-0.0105	-0.0134	-0.0141	-0.0142	-0.0136	-0.0136	-0.0140	0
		Y	I	-0.0095	0.0307	0.0411	0.0418	0.0417	0.0417	0.0416	0.0415	0.0433
			II	-0.0054	0.0099	0.0106	0.0104	0.0104	0.0104	0.0104	0.0104	0.0105
			III	0	-0.0632	-0.0802	-0.0847	-0.0850	-0.0818	-0.0810	-0.0842	-0.0886
	三角形分布荷重	X	I	-0.0505	0.0125	0.0068	0.0044	0.0034	0.0027	0.0018	0.0005	0
			II	-0.0302	0.0061	0.0025	0.0011	0.0007	0.0006	0.0003	0	0
			III	0	-0.0093	-0.0097	-0.0085	-0.0072	-0.0055	-0.0039	-0.0018	0
		Y	I	-0.0084	0.0261	0.0307	0.0261	0.0209	0.0156	0.0105	0.0054	0.0023
			II	-0.0050	0.0086	0.0080	0.0065	0.0052	0.0039	0.0027	0.0012	0.0003
			III	0	-0.0560	-0.0583	-0.0510	-0.0432	-0.0331	-0.0231	-0.0109	0.0012
4.25	等分布荷重	X	I	-0.0560	0.0134	0.0081	0.0068	0.0069	0.0071	0.0072	0.0068	0
			II	-0.0325	0.0065	0.0026	0.0015	0.0015	0.0020	0.0022	0.0016	0
			III	0	-0.0108	-0.0133	-0.0141	-0.0142	-0.0136	-0.0135	-0.0141	0
		Y	I	-0.0093	0.0321	0.0413	0.0418	0.0417	0.0417	0.0416	0.0415	0.0433
			II	-0.0054	0.0101	0.0106	0.0104	0.0104	0.0104	0.0105	0.0104	0.0105
			III	0	-0.0651	-0.0801	-0.0848	-0.0852	-0.0816	-0.0807	-0.0844	-0.0891
	三角形分布荷重	X	I	-0.0507	0.0123	0.0064	0.0043	0.0034	0.0027	0.0018	0.0066	0
			II	-0.0301	0.0059	0.0023	0.0011	0.0007	0.0005	0.0003	0	0
			III	0	-0.0097	-0.0097	-0.0085	-0.0852	-0.0056	-0.0039	-0.0018	0
		Y	I	-0.0085	0.0274	0.0309	0.0261	0.0209	0.0157	0.0105	0.0054	0.0022
			II	-0.0050	0.0088	0.0080	0.0065	0.0052	0.0039	0.0027	0.0012	0.0004
			III	0	-0.0580	-0.0580	-0.0507	-0.0434	-0.0334	-0.0234	-0.0108	0.0018

표(3-2) 3변고정 1변자유판의 계산수표(x방향 8등분, y방향 4등분)

(g) $\lambda=4.50, 4.75, 5.00$

λ	荷重	Bending Moment 계수	座標	1	2	3	4	5	6	7	8	9
4.50	等分布荷重	X	I	-0.0560	0.0132	0.0078	0.0067	0.0068	0.0071	0.0073	0.0069	0
			II	-0.0322	0.0063	0.0025	0.0014	0.0015	0.0021	0.0023	0.0016	0
			III	0	-0.0111	-0.0133	-0.0141	-0.0142	-0.0136	-0.0134	-0.0141	0
		Y	I	-0.0093	0.0334	0.0415	0.0418	0.0417	0.0416	0.0416	0.0415	0.0435
			II	-0.0054	0.0103	0.0106	0.0104	0.0104	0.0105	0.0105	0.0104	0.0106
			III	0	-0.0667	-0.0798	-0.0849	-0.0854	-0.0814	-0.0804	-0.0847	-0.0896
	三角形分布荷重	X	I	-0.0510	0.0120	0.0061	0.0043	0.0034	0.0026	0.0018	0.0006	0
			II	-0.0300	0.0056	0.0022	0.0012	0.0006	0.0005	0.0002	0.0001	0
			III	0	-0.0100	-0.0096	-0.0084	-0.0073	-0.0056	-0.0040	-0.0018	0
		Y	I	-0.0085	0.0286	0.0311	0.0261	0.0209	0.0157	0.0105	0.0053	0.0021
			II	-0.0050	0.0090	0.0080	0.0065	0.0052	0.0039	0.0027	0.0012	0.0005
			III	0	-0.0598	-0.0576	-0.0505	-0.0436	-0.0336	-0.0238	-0.0108	0.0025
4.75	等分布荷重	X	I	-0.0555	0.0129	0.0076	0.0067	0.0068	0.0072	0.0073	0.0069	0
			II	-0.0315	0.0061	0.0024	0.0014	0.0014	0.0021	0.0023	0.0016	0
			III	0	-0.0113	-0.0132	-0.0142	-0.0143	-0.0135	-0.0134	-0.0142	0
		Y	I	-0.0092	0.0345	0.0416	0.0417	0.0417	0.0416	0.0416	0.0415	0.0433
			II	-0.0052	0.0105	0.0105	0.0103	0.0104	0.0105	0.0105	0.0104	0.0104
			III	0	-0.0679	-0.0794	-0.0850	-0.0856	-0.0811	-0.0801	-0.0849	-0.0901
	三角形分布荷重	X	I	-0.0508	0.0117	0.0059	0.0043	0.0034	0.0026	0.0018	0.0007	0
			II	-0.0296	0.0053	0.0022	0.0012	0.0006	0.0005	0.0002	0.0001	0
			III	0	-0.0102	-0.0095	-0.0084	-0.0073	-0.0056	-0.0040	-0.0018	0
		Y	I	-0.0085	0.0297	0.0311	0.0260	0.0209	0.0157	0.0105	0.0053	0.0020
			II	-0.0049	0.0091	0.0080	0.0065	0.0052	0.0039	0.0027	0.0012	0.0006
			III	0	-0.0612	-0.0571	-0.0502	-0.0438	-0.0339	-0.0241	-0.0108	0.0032
5.00	等分布荷重	X	I	-0.0552	0.0126	0.0074	0.0066	0.0068	0.0072	0.0074	0.0069	0
			II	-0.0309	0.0059	0.0023	0.0013	0.0014	0.0022	0.0024	0.0016	0
			III	0	-0.0115	-0.0132	-0.0142	-0.0143	-0.0135	-0.0133	-0.0142	0
		Y	I	-0.0092	0.0355	0.0416	0.0417	0.0417	0.0416	0.0416	0.0416	0.0433
			II	-0.0052	0.0106	0.0105	0.0103	0.0103	0.0105	0.0106	0.0104	0.0103
			III	0	-0.0689	-0.0790	-0.0851	-0.0858	-0.0809	-0.0798	-0.0852	-0.0906
	三角形分布荷重	X	I	-0.0508	0.0113	0.0058	0.0043	0.0033	0.0026	0.0017	0.0007	0
			II	-0.0292	0.0050	0.0022	0.0012	0.0006	0.0004	0.0001	0.0001	0
			III	0	-0.0104	-0.0094	-0.0083	-0.0073	-0.0057	-0.0041	-0.0018	0
		Y	I	-0.0085	0.0306	0.0311	0.0260	0.0209	0.0157	0.0105	0.0053	0.0019
			II	-0.0049	0.0092	0.0080	0.0065	0.0052	0.0039	0.0026	0.0012	0.0007
			III	0	-0.0625	-0.0565	-0.0500	-0.0440	-0.0342	-0.0245	-0.0107	0.0039

표(3-3) 4변고정판의 계산수표(x, y방향 4등분)

(a) $\lambda=0.30, 0.40, 0.50$

λ	荷重	Bending Moment 계수	座標	1	2	3	4	5
0.30	等分布荷重	X	I	-0.0835	0.0104	0.0418	0.0104	-0.0835
			II	-0.0813	0.0108	0.0398	0.0108	-0.0813
			III	0	-0.0058	-0.0095	-0.0058	0
		Y	I	-0.0139	0.0017	0.0070	0.0017	-0.0139
			II	-0.0136	0.0038	0.0103	0.0038	-0.0136
			III	0	-0.0345	-0.0569	-0.0345	0
	三角形分布荷重	X	I	-0.0334	0.0016	0.0209	0.0089	-0.0501
			II	-0.0323	0.0018	0.0199	0.0091	-0.0490
			III	0	-0.0021	-0.0047	-0.0036	0
		Y	I	-0.0059	0.0003	0.0035	0.0015	-0.0084
			II	-0.0054	0.0013	0.0052	0.0025	-0.0082
			III	0	-0.0126	-0.0284	-0.0218	0
0.40	等分布荷重	X	I	-0.0839	0.0107	0.0418	0.0107	-0.0839
			II	-0.0749	0.0106	0.0356	0.0106	-0.0749
			III	0	-0.0058	-0.0095	-0.0058	0
		Y	I	-0.0140	0.0023	0.0080	0.0023	-0.0140
			II	-0.0125	0.0057	0.0129	0.0057	-0.0125
			III	0	-0.0345	-0.0569	-0.0345	0
	三角形分布荷重	X	I	-0.0336	0.0017	0.0209	0.0090	-0.0503
			II	-0.0292	0.0017	0.0178	0.0089	-0.0457
			III	0	-0.0021	-0.0048	-0.0036	0
		Y	I	-0.0056	0.0005	0.0040	0.0017	-0.0084
			II	-0.0049	0.0021	0.0065	0.0036	-0.0076
			III	0	-0.0127	-0.0284	-0.0218	0
0.50	等分布荷重	X	I	-0.0828	0.0110	0.0407	0.0110	-0.0828
			II	-0.0669	0.0100	0.0308	0.0100	-0.0669
			III	0	-0.0058	-0.0095	-0.0058	0
		Y	I	-0.0138	0.0038	0.0105	0.0038	-0.0138
			II	-0.0112	0.0068	0.0139	0.0068	-0.0112
			III	0	-0.0345	-0.0570	-0.0345	0
	三角形分布荷重	X	I	-0.0331	0.0019	0.0203	0.0092	-0.0497
			II	-0.0254	0.0015	0.0154	0.0084	-0.0415
			III	0	-0.0021	-0.0048	-0.0037	0
		Y	I	-0.0055	0.0013	0.0052	0.0025	-0.0083
			II	-0.0042	0.0025	0.0070	0.0042	-0.0069
			III	0	-0.0127	-0.0285	-0.0219	0

표(3-3) 4변고정판의 계산수표(x, y방향 4등분)

(b) $\lambda=0.75, 1.00, 1.25$

λ	荷重	Bending Moment 계수	座標	1	2	3	4	5
0.75	等分布荷重	X	I	-0.0701	0.0110	0.0318	0.0110	-0.0701
			II	-0.0477	0.0078	0.0200	0.0078	-0.0477
			III	0	-0.0058	-0.0094	-0.0058	0
		Y	I	-0.0117	0.0089	0.0179	0.0089	-0.0117
			II	-0.0080	0.0069	0.0125	0.0069	-0.0080
			III	0	-0.0345	-0.0565	-0.0345	0
	三角形分布荷重	X	I	-0.0268	0.0020	0.0159	0.0091	-0.0433
			II	-0.0167	0.0010	0.0100	0.0068	-0.0310
			III	0	-0.0021	-0.0047	-0.0036	0
		Y	I	-0.0045	0.0037	0.0090	0.0052	-0.0072
			II	-0.0026	0.0024	0.0062	0.0045	-0.0052
			III	0	-0.0126	+0.0283	-0.0218	0
1.00	等分布荷重	X	I	-0.0513	0.0096	0.0206	0.0096	-0.0513
			II	-0.0324	0.0059	-0.0116	0.0059	-0.0324
			III	0	-0.0324	-0.0086	-0.0054	0
		Y	I	-0.0086	0.0116	0.0206	0.0116	-0.0086
			II	-0.0054	0.0059	0.0096	0.0059	-0.0054
			III	0	-0.0324	-0.0513	-0.0324	0
	三角形分布荷重	X	I	-0.0179	0.0015	0.0103	0.0080	-0.0334
			II	-0.0101	0.0006	0.0058	0.0052	-0.0223
			III	0	-0.0019	-0.0043	-0.0036	0
		Y	I	-0.0030	0.0047	0.0103	0.0069	-0.0056
			II	-0.0017	0.0018	0.0048	0.0040	-0.0037
			III	0	-0.0116	-0.0257	-0.0208	0
1.25	等分布荷重	X	I	-0.0559	0.0119	0.0189	0.0119	-0.0559
			II	-0.0343	0.0067	0.0097	0.0067	-0.0343
			III	0	-0.0074	-0.0111	-0.0074	0
		Y	I	-0.0093	0.0181	0.0295	0.0181	-0.0093
			II	-0.0057	0.0074	0.0108	0.0074	-0.0057
			III	0	-0.0442	-0.0664	-0.0442	0
	三角形分布荷重	X	I	-0.0171	0.0017	0.0095	0.0102	-0.0389
			II	-0.0092	0.0006	0.0048	0.0061	-0.0251
			III	0	-0.0025	-0.0055	-0.0049	0
		Y	I	-0.0029	0.0069	0.0147	0.0111	-0.0065
			II	-0.0015	0.0021	0.0054	0.0053	-0.0042
			III	0	-0.0151	-0.0332	-0.0291	0

표(3-3) 4변고정판의 계산수표(x, y방향 4등분)

(c) $\lambda=1.50, 1.75, 2.00$

λ	荷重	Bending Moment 계수	座標	1	2	3	4	5
1.50	等分布荷重	X	I	-0.0570	0.0133	0.0158	0.0133	-0.0570
			II	-0.0346	0.0071	0.0073	0.0071	-0.0346
			III	0	-0.0090	-0.0126	-0.0090	0
		Y	I	-0.0095	0.0234	0.0354	0.0234	-0.0095
			II	-0.0058	0.0086	0.0112	0.0086	-0.0058
			III	0	-0.0538	-0.0756	-0.0538	0
	三角形分布荷重	X	I	-0.0149	0.0017	0.0079	0.0116	-0.0421
			II	-0.0079	0.0006	0.0036	0.0065	-0.0267
			III	0	-0.0029	-0.0063	-0.0061	0
		Y	I	-0.0025	0.0083	0.0177	0.0151	-0.0079
			II	-0.0013	0.0023	0.0056	0.0063	-0.0045
			III	0	-0.0172	-0.0378	-0.0365	0
1.75	等分布荷重	X	I	-0.0571	0.0139	0.0128	0.0139	-0.0571
			II	-0.0346	0.0071	0.0052	0.0071	-0.0346
			III	0	-0.0102	-0.0135	-0.0102	0
		Y	I	-0.0095	0.0275	0.0389	0.0275	-0.0095
			II	-0.0058	0.0094	0.0112	0.0094	-0.0058
			III	0	-0.0611	-0.0805	-0.0611	0
	三角形分布荷重	X	I	-0.0128	0.0018	0.0064	0.0121	-0.0442
			II	-0.0068	0.0006	0.0026	0.0065	-0.0278
			III	0	-0.0031	-0.0067	-0.0071	0
		Y	I	-0.0021	0.0090	0.0194	0.0185	-0.0074
			II	-0.0011	0.0024	0.0056	0.0070	-0.0046
			III	0	-0.0184	-0.0403	-0.0427	0
2.00	等分布荷重	X	I	-0.0570	0.0139	0.0105	0.0139	-0.0570
			II	-0.0345	0.0068	0.0038	0.0068	-0.0345
			III	0	-0.0112	-0.0138	-0.0112	0
		Y	I	-0.0095	0.0308	0.0407	0.0308	-0.0095
			II	-0.0058	0.0100	0.0110	0.0100	-0.0058
			III	0	-0.0669	-0.0828	-0.0699	0
	三角形分布荷重	X	I	-0.0112	0.0018	0.0052	0.0121	-0.0458
			II	-0.0059	0.0006	0.0019	0.0062	-0.0287
			III	0	-0.0032	-0.0069	-0.0080	0
		Y	I	-0.0019	0.0094	0.0203	0.0214	-0.0077
			II	-0.0010	0.0025	0.0055	0.0075	-0.0048
			III	0	-0.0192	-0.0414	-0.0477	0

표(3-3) 4변고정판의 계산수표(x, y방향 4등분)

(d) λ=2.25, 2.50, 2.75

λ	荷重	Bending Moment 계수	座標	1	2	3	4	5
2.25	等分布荷重	X	I	-0.0569	0.0136	0.0089	0.0136	-0.0569
			II	-0.0345	0.0063	0.0028	0.0063	-0.0345
			III	0	-0.0119	-0.0140	-0.0119	0
		Y	I	-0.0095	0.0335	0.0415	0.0335	-0.0095
			II	-0.0058	0.0104	0.0108	0.0104	-0.0058
			III	0	-0.0714	-0.0837	-0.0714	0
	三角形分布荷重	X	I	-0.0099	0.0019	0.0045	0.0117	-0.0470
			II	-0.0052	0.0006	0.0014	0.0057	-0.0293
			III	0	-0.0033	-0.0070	-0.0086	0
		Y	I	-0.0016	0.0097	0.0207	0.0238	-0.0079
			II	-0.0009	0.0025	0.0054	0.0079	-0.0049
			III	0	-0.0196	-0.0419	-0.0518	0
2.50	等分布荷重	X	I	-0.0569	0.0129	0.0080	0.0129	-0.0569
			II	-0.0345	0.0057	0.0023	0.0057	-0.0345
			III	0	-0.0125	-0.0140	-0.0125	0
		Y	I	-0.0095	0.0356	0.0418	0.0356	-0.0095
			II	-0.0058	0.0106	0.0107	0.0106	-0.0058
			III	0	-0.0749	-0.0839	-0.0749	0
	三角形分布荷重	X	I	-0.0089	0.0019	0.0040	0.0110	-0.0480
			II	-0.0047	0.0006	0.0011	0.0051	-0.0298
			III	0	-0.0033	-0.0070	-0.0092	0
		Y	I	-0.0015	0.0099	0.0209	0.0257	-0.0080
			II	-0.0008	0.0026	0.0053	0.0081	-0.0050
			III	0	-0.0200	-0.0420	-0.0549	0
2.75	等分布荷重	X	I	-0.0568	0.0122	0.0074	0.0122	-0.0568
			II	-0.0344	0.0051	0.0020	0.0051	-0.0344
			III	0	-0.0130	-0.0140	-0.0130	0
		Y	I	-0.0095	0.0373	0.0419	0.0373	-0.0095
			II	-0.0058	0.0108	0.0106	0.0108	-0.0058
			III	0	-0.0775	-0.0839	-0.0775	0
	三角形分布荷重	X	I	-0.0080	0.0019	0.0037	0.0102	-0.0488
			II	-0.0042	0.0006	0.0010	0.0045	-0.0302
			III	0	-0.0034	-0.0070	-0.0096	0
		Y	I	-0.0013	0.0100	0.0210	0.0272	-0.0081
			II	-0.0007	0.0026	0.0053	0.0082	-0.0050
			III	0	-0.0202	-0.0419	-0.0573	0

표(3-3) 4변고정판의 계산수표(x, y방향 4등분)

(c) $\lambda=3.00$

λ	荷重	Bending Moment 계수	座標	1	2	3	4	5
3.00	等分布荷重	X	I	-0.0568	0.0113	0.0071	0.0113	-0.0568
			II	-0.0344	0.0045	0.0018	0.0045	-0.0344
			III	0	-0.0133	-0.0140	-0.0133	0
		Y	I	-0.0095	0.0386	0.0419	0.0386	-0.0095
			II	-0.0058	0.0108	0.0105	0.0108	-0.0058
			III	0	-0.0795	-0.0837	-0.0795	0
	三角形分布荷重	X	I	-0.0074	0.0019	0.0036	0.0094	-0.0495
			II	-0.0039	0.0006	0.0009	0.0039	-0.0306
			III	0	-0.0034	-0.0070	-0.0099	0
		Y	I	-0.0012	0.0102	0.0209	0.0284	-0.0083
			II	-0.0006	0.0026	0.0052	0.0082	-0.0051
			III	0	-0.0204	-0.0419	-0.0591	0

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