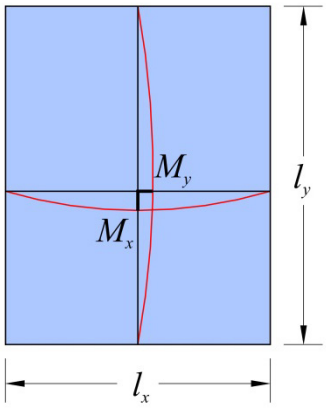
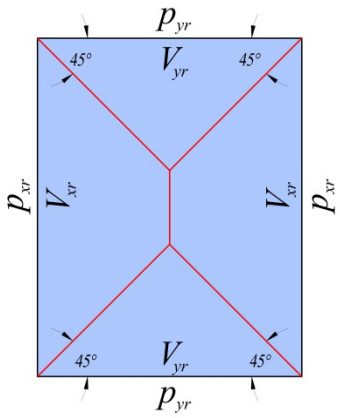
Tables 46 - 59

Table 46 Two-way slab with four simply-supported edges



$M_x=p\cdot l_x^2/m_x$
$M_y=p\cdot l_x^2/m_y$
$f_m=a\cdot p\cdot l_x^4/(E\cdot h^3)$

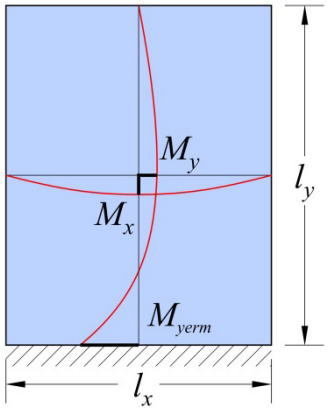


$V_{xr}=\rho_{xr}\cdot p\cdot l_x$
$V_{yr}=\rho_{yr}\cdot p\cdot l_x$
$p_{xr}=\upsilon_{xr}\cdot p\cdot l_x$
$p_{yr}=\upsilon_{yr}\cdot p\cdot l_x$

p_{ij}= equivalent uniform load

ε=ly/lx	mx	my	100 a	ρxr	ρyr	υxr	υyr
1.00	27.2	27.2	4.87	0.34	0.34	0.25	0.25
1.05	24.5	27.5	5.36	0.35	0.35	0.26	0.25
1.10	22.4	27.9	5.84	0.36	0.35	0.27	0.25
1.15	20.7	28.4	6.31	0.37	0.35	0.28	0.25
1.20	19.1	29.1	6.78	0.38	0.36	0.29	0.25
1.25	17.8	29.9	7.28	0.39	0.36	0.3	0.25
1.30	16.8	30.9	7.67	0.4	0.36	0.31	0.25
1.35	15.8	31.8	8.09	0.41	0.36	0.31	0.25
1.40	15	32.8	8.5	0.42	0.37	0.32	0.25
1.45	14.3	33.8	8.9	0.42	0.37	0.33	0.25
1.50	13.7	34.7	9.27	0.43	0.37	0.33	0.25
1.60	12.7	36.1	9.97	0.44	0.37	0.34	0.25
1.70	11.9	37.3	10.6	0.45	0.37	0.35	0.25
1.80	11.3	38.5	11.18	0.46	0.37	0.36	0.25
1.90	10.8	39.4	11.69	0.46	0.37	0.37	0.25
2.00	10.4	40.3	12.15	0.47	0.37	0.38	0.25

Table 47-1 Two-way slab with one fixed edge and the rest simply supported

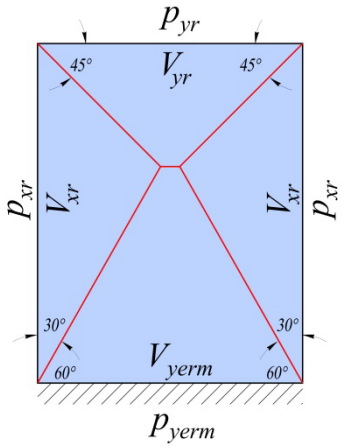


$M_x=p\cdot l_x^2/m_x$

$M_y=p\cdot l_x^2/m_y$

$M_{yerm}=-p\cdot l_x^2/m_{yerm}$

$f_m=a\cdot p\cdot l_x^4/(E\cdot h^3)$



$V_{xr}=\rho_{xr}\cdot p\cdot l_x$

$V_{yr}=\rho_{yr}\cdot p\cdot l_x$

$V_{yerm}=\rho_{yerm}\cdot p\cdot l_x$

$p_{xr}=u_{xr}\cdot p\cdot l_x$

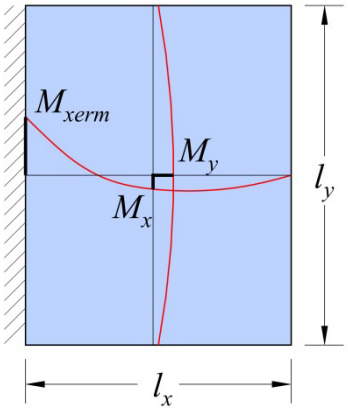
$p_{yr}=u_{yr}\cdot p\cdot l$

$p_{yerm}=u_{yerm}\cdot p\cdot l_x$

p_{ij}= equivalent uniform load

$\varepsilon=l_y/l_x$	m_x	m_y	m_{yerm}	100 a	ρ_{xr}	ρ_{yr}	ρ_{yerm}	u_{xr}	u_yr	u_{yerm}
1.00	41.20	29.40	11.90	3.34	0.29	0.32	0.58	0.18	0.23	0.40
1.05	36.50	29.00	11.30	3.78	0.30	0.33	0.60	0.19	0.24	0.41
1.10	31.90	28.80	10.90	4.22	0.31	0.33	0.61	0.20	0.24	0.42
1.15	28.30	28.80	10.40	4.67	0.32	0.34	0.63	0.21	0.24	0.42
1.20	25.90	28.90	10.10	5.12	0.33	0.34	0.64	0.22	0.25	0.43
1.25	23.40	29.20	9.80	5.57	0.34	0.34	0.65	0.23	0.25	0.43
1.30	21.70	29.70	9.60	6.02	0.35	0.35	0.66	0.24	0.25	0.43
1.35	20.10	30.20	9.30	6.45	0.36	0.35	0.67	0.25	0.25	0.43
1.40	18.80	30.80	9.20	6.89	0.37	0.35	0.68	0.26	0.25	0.43
1.45	17.50	31.60	9.00	7.31	0.38	0.36	0.69	0.27	0.25	0.43
1.50	16.60	32.30	8.90	7.73	0.39	0.36	0.69	0.27	0.25	0.43
1.60	15.00	33.60	8.70	8.52	0.41	0.36	0.70	0.29	0.25	0.43
1.70	13.80	34.90	8.50	9.26	0.42	0.36	0.71	0.30	0.25	0.43
1.80	12.80	36.20	8.40	9.94	0.43	0.37	0.72	0.31	0.25	0.43
1.90	12.00	37.50	8.30	10.56	0.44	0.37	0.72	0.32	0.25	0.43
2.00	11.40	38.80	8.20	11.12	0.45	0.37	0.73	0.33	0.25	0.43

Table 47-2 Two-way slab with one fixed edge and the rest simply supported

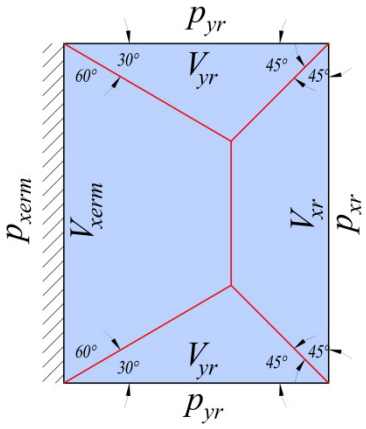


$M_x=p\cdot l_x^2/m_x$

$M_y=p\cdot l_x^2/m_y$

$M_{xerm}=-p\cdot l_x^2/m_{xerm}$

$f_m=a\cdot p\cdot l_x^4/(E\cdot h^3)$



$V_{xr}=\rho_{xr}\cdot p\cdot l_x$

$V_{xerm}=\rho_{xerm}\cdot p\cdot l_x$

$V_{yr}=\rho_{yr}\cdot p\cdot l_x$

$p_{xr}=u_{xr}\cdot p\cdot l_x$

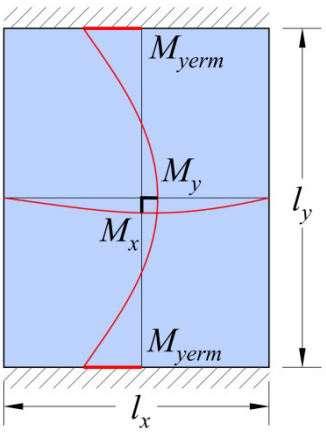
$p_{yr}=u_{yr}\cdot p\cdot l_x$

$p_{xerm}=u_{xerm}\cdot p\cdot l_x$

p_{ij}= equivalent uniform load

$\varepsilon=l_y/l_x$	m_x	m_{xerm}	m_y	100 a	ρ_{xr}	ρ_{xerm}	ρ_{yr}	u_{xr}	u_{yr}	u_{xerm}
1.00	31.40	11.90	41.20	3.34	0.32	0.58	0.29	0.23	0.40	0.18
1.05	29.20	11.30	43.20	3.57	0.32	0.59	0.29	0.24	0.41	0.18
1.10	27.30	10.90	45.10	3.80	0.33	0.60	0.29	0.24	0.42	0.18
1.15	25.80	10.50	47.10	4.01	0.33	0.61	0.29	0.25	0.43	0.18
1.20	24.50	10.20	48.80	4.20	0.34	0.61	0.29	0.25	0.44	0.18
1.25	23.40	9.90	50.30	4.38	0.35	0.62	0.29	0.26	0.45	0.18
1.30	22.40	9.70	51.80	4.55	0.35	0.62	0.29	0.26	0.46	0.18
1.35	21.60	9.40	53.20	4.72	0.35	0.63	0.29	0.27	0.46	0.18
1.40	21.00	9.30	54.30	4.85	0.36	0.63	0.29	0.27	0.47	0.18
1.45	20.30	9.10	55.00	4.98	0.36	0.63	0.29	0.27	0.47	0.18
1.50	19.80	9.00	55.60	5.10	0.36	0.63	0.29	0.28	0.48	0.18
1.60	19.00	8.80	56.80	5.31	0.37	0.64	0.29	0.28	0.49	0.18
1.70	18.30	8.60	57.80	5.49	0.37	0.64	0.29	0.29	0.50	0.18
1.80	17.80	8.40	58.60	5.62	0.37	0.64	0.28	0.29	0.50	0.18
1.90	17.40	8.30	59.00	5.75	0.38	0.64	0.28	0.30	0.51	0.18
2.00	17.10	8.30	59.20	5.85	0.38	0.64	0.28	0.30	0.52	0.18

Table 48-1 Two-way slab with two opposite fixed edges and the rest simply supported

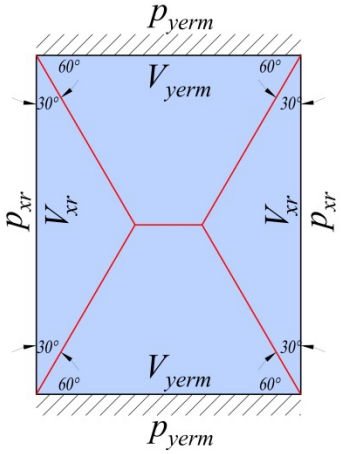


$M_x=p\cdot l_x^2/m_x$

$M_y=p\cdot l_x^2/m_y$

$M_{yerm}=-p\cdot l_x^2/m_{yerm}$

$f_m=a\cdot p\cdot l_x^4/(E\cdot h^3)$



$V_{xr}=\rho_{xr}\cdot p\cdot l_x$

$V_{yerm}=\rho_{yerm}\cdot p\cdot l_x$

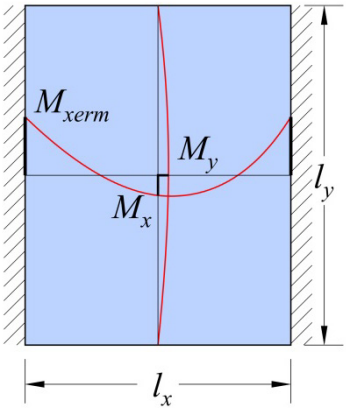
$p_{xr}=u_{xr}\cdot p\cdot l_x$

$p_{yerm}=u_{yerm}\cdot p\cdot l_x$

p_{ij}= equivalent uniform load

$\varepsilon=l_y/l_x$	m_x	m_y	m_{yerm}	100 a	ρ_{xr}	ρ_{yerm}	u_{xr}	u_{yerm}
1.00	63.30	35.10	14.30	2.30	0.25	0.52	0.14	0.36
1.05	52.20	33.70	13.40	2.66	0.26	0.54	0.15	0.37
1.10	46.10	32.90	12.70	3.03	0.27	0.56	0.16	0.37
1.15	39.80	32.20	12.00	3.43	0.28	0.58	0.17	0.38
1.20	35.50	31.70	11.50	3.83	0.30	0.59	0.17	0.39
1.25	31.50	31.30	11.10	4.25	0.31	0.61	0.18	0.40
1.30	28.50	31.20	10.70	4.67	0.32	0.62	0.19	0.41
1.35	25.80	31.20	10.30	5.10	0.33	0.64	0.20	0.41
1.40	23.70	31.40	10.00	5.53	0.34	0.65	0.20	0.42
1.45	22.00	31.70	9.75	5.96	0.35	0.66	0.21	0.42
1.50	20.40	32.10	9.50	6.39	0.36	0.67	0.22	0.42
1.60	17.90	33.30	9.20	7.22	0.38	0.69	0.23	0.43
1.70	16.00	34.90	8.90	8.02	0.40	0.70	0.25	0.43
1.80	14.60	37.10	8.70	8.78	0.41	0.71	0.26	0.43
1.90	13.40	39.70	8.50	9.49	0.42	0.71	0.27	0.43
2.00	12.50	42.40	8.40	10.13	0.43	0.72	0.28	0.43

Table 48-2 Two-way slab with two opposite fixed edges and the rest simply supported

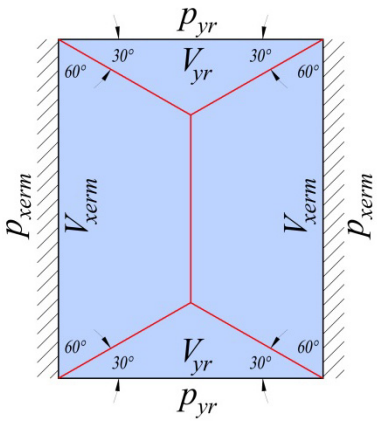


$M_x=p\cdot l_x^2/m_x$

$M_y=p\cdot l_x^2/m_y$

$M_{xerm}=-p\cdot l_x^2/m_{xerm}$

$f_m=a\cdot p\cdot l_x^4/(E\cdot h^3)$



$V_{xerm}=\rho_{xerm}\cdot p\cdot l_x$

$V_{yr}=\rho_{yr}\cdot p\cdot l_x$

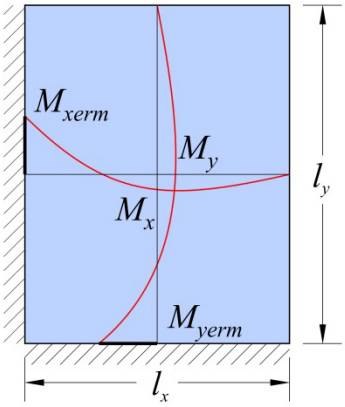
$p_{xerm}=u_{xerm}\cdot p\cdot l_x$

$p_{yr}=u_{yr}\cdot p\cdot l_x$

p_{ij}= equivalent uniform load

$\varepsilon=l_y/l_x$	m_x	m_{xerm}	m_y	100 a	ρ_{xerm}	ρ_{yr}	u_{xerm}	u_{yr}
1.00	35.10	14.39	61.70	2.30	0.52	0.25	0.36	0.14
1.05	33.00	13.89	64.50	2.41	0.52	0.25	0.36	0.14
1.10	31.70	13.59	67.20	2.51	0.52	0.25	0.37	0.14
1.15	30.40	13.29	69.60	2.60	0.53	0.25	0.38	0.14
1.20	29.40	13.00	71.50	2.67	0.53	0.25	0.38	0.14
1.25	28.50	12.70	72.80	2.75	0.53	0.24	0.39	0.14
1.30	27.80	12.60	73.50	2.80	0.53	0.24	0.39	0.14
1.35	27.10	12.40	74.10	2.85	0.53	0.24	0.39	0.14
1.40	26.60	12.30	74.60	2.89	0.53	0.24	0.40	0.14
1.45	26.10	12.20	75.30	2.93	0.53	0.24	0.40	0.14
1.50	25.80	12.20	75.80	2.97	0.52	0.24	0.40	0.14
1.60	25.20	12.00	77.00	3.02	0.52	0.24	0.41	0.14
1.70	24.70	12.00	77.00	3.07	0.52	0.24	0.42	0.14
1.80	24.40	12.00	77.00	3.09	0.52	0.24	0.42	0.14
1.90	24.30	12.00	77.00	3.11	0.51	0.24	0.42	0.14
2.00	24.10	12.00	77.00	3.13	0.51	0.24	0.43	0.14

Table 49 Two-way slab with two adjacent fixed edges and the rest simply supported



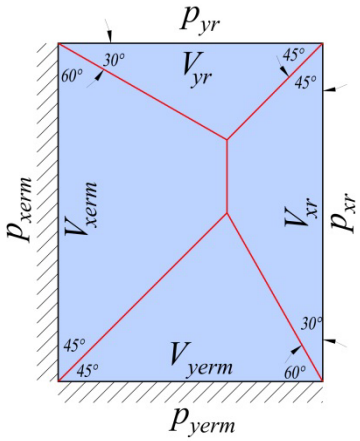
$M_x=p\cdot l_x^2/m_x$

$M_y=p\cdot l_x^2/m_y$

$M_{xerm}=-p\cdot l_x^2/m_{xerm}$

$M_{yerm}=-p\cdot l_x^2/m_{yerm}$

$f_m=a\cdot p\cdot l_x^4/(E\cdot h^3)$



$V_{xr}=\rho_{xr}\cdot p\cdot l_x$

$V_{xerm}=\rho_{xerm}\cdot p\cdot l_x$

$V_{yr}=\rho_{yr}\cdot p\cdot l_x$

$V_{yerm}=\rho_{yerm}\cdot p\cdot l_x$

$p_x=u_{yx}\cdot p\cdot l_x$

$p_{xerm}=u_{xerm}\cdot p\cdot l_x$

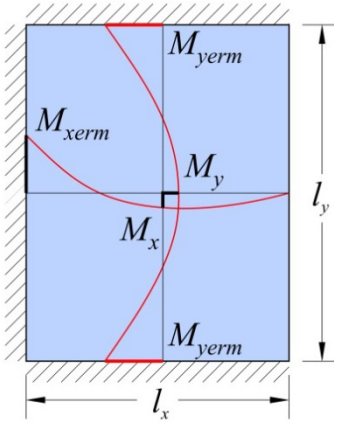
$p_{yr}=u_{yr}\cdot p\cdot l_x$

$p_{yerm}=u_{yerm}\cdot p\cdot l_x$

p_{ij}= equivalent uniform load

$\varepsilon=l_y/l_x$	m_x	m_{xerm}	m_y	m_{yerm}	100 a	ρ_{xr}	ρ_{xerm}	ρ_{yr}	ρ_{yerm}	u_{xr}	u_{xerm}	u_{yr}	u_{yerm}
1.00	40.20	14.30	40.20	14.30	2.52	0.28	0.51	0.28	0.51	0.18	0.32	0.18	0.32
1.05	38.00	13.30	41.00	13.80	2.81	0.29	0.53	0.28	0.52	0.19	0.33	0.18	0.32
1.10	35.10	12.70	42.00	13.60	3.02	0.30	0.55	0.28	0.53	0.20	0.35	0.18	0.32
1.15	32.20	12.00	42.90	13.30	3.29	0.31	0.56	0.28	0.53	0.21	0.36	0.18	0.32
1.20	30.00	11.50	44.00	13.10	3.48	0.32	0.57	0.29	0.53	0.21	0.37	0.18	0.32
1.25	28.00	11.10	45.60	12.90	3.69	0.32	0.58	0.29	0.54	0.22	0.38	0.18	0.32
1.30	26.50	10.70	47.60	12.80	3.89	0.33	0.59	0.29	0.54	0.22	0.39	0.18	0.32
1.35	25.20	10.30	49.60	12.70	4.08	0.33	0.60	0.29	0.54	0.23	0.40	0.18	0.32
1.40	24.10	10.00	51.00	12.60	4.26	0.34	0.61	0.29	0.54	0.23	0.41	0.18	0.32
1.45	23.10	9.80	52.10	12.50	4.43	0.34	0.61	0.29	0.55	0.24	0.42	0.18	0.32
1.50	22.20	9.60	53.00	12.40	4.59	0.35	0.61	0.29	0.55	0.24	0.42	0.18	0.32
1.60	21.00	9.20	54.80	12.30	4.84	0.35	0.61	0.29	0.55	0.25	0.44	0.18	0.32
1.70	19.90	8.90	56.30	12.20	5.08	0.36	0.62	0.29	0.55	0.26	0.45	0.18	0.32
1.80	19.10	8.70	57.70	12.20	5.29	0.36	0.63	0.29	0.55	0.26	0.46	0.18	0.32
1.90	18.40	8.50	59.00	12.20	5.47	0.37	0.63	0.29	0.55	0.27	0.47	0.18	0.32
2.00	17.90	8.40	60.20	12.20	5.62	0.37	0.63	0.29	0.55	0.27	0.48	0.18	0.32

Table 50-1 Two-way slab with three fixed edges and the rest simply supported



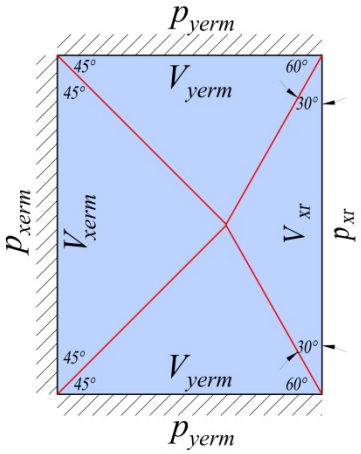
$M_x=p\cdot l_x^2/m_x$

$M_y=p\cdot l_x^2/m_y$

$M_{xerm}=-p\cdot l_x^2/m_{xerm}$

$M_{yerm}=-p\cdot l_x^2/m_{yerm}$

$f_m=a\cdot p\cdot l_x^4/(E\cdot h^3)$



$V_{xr}=\rho_{xr}\cdot p\cdot l_x$

$V_{xerm}=\rho_{xerm}\cdot p\cdot l_x$

$V_{yerm}=\rho_{yerm}\cdot p\cdot l_x$

$p_x=u_{yx}\cdot p\cdot l_x$

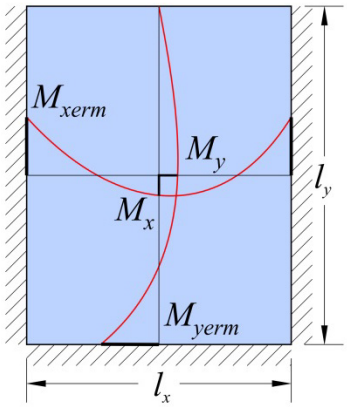
$p_{xerm}=u_{xerm}\cdot p\cdot l_x$

$p_{yerm}=u_{yerm}\cdot p\cdot l_x$

p_{ij}= equivalent uniform load

$\varepsilon=l_y/l_x$	m_x	m_{xerm}	m_y	m_{yerm}	100 a	ρ_{xr}	ρ_{xerm}	ρ_{yerm}	u_{xr}	u_{xerm}	u_{yerm}
1.00	59.50	18.30	44.10	16.20	1.88	0.25	0.45	0.47	0.14	0.25	0.30
1.05	51.60	16.60	43.60	15.40	2.12	0.26	0.48	0.49	0.15	0.26	0.31
1.10	46.10	15.40	43.70	14.80	2.36	0.27	0.50	0.50	0.16	0.28	0.31
1.15	41.40	14.40	44.20	14.30	2.60	0.28	0.51	0.51	0.16	0.29	0.32
1.20	37.50	13.50	44.80	13.90	2.84	0.29	0.53	0.52	0.17	0.30	0.32
1.25	34.20	12.70	45.80	13.50	3.08	0.30	0.54	0.52	0.18	0.31	0.32
1.30	31.80	12.20	46.90	13.30	3.29	0.31	0.55	0.53	0.19	0.33	0.32
1.35	29.60	11.60	48.60	13.10	3.51	0.32	0.56	0.53	0.19	0.34	0.32
1.40	28.00	11.20	50.30	13.00	3.71	0.32	0.57	0.54	0.20	0.35	0.32
1.45	26.40	10.90	52.30	12.80	3.91	0.33	0.58	0.54	0.21	0.36	0.32
1.50	25.20	10.60	55.00	12.70	4.09	0.33	0.58	0.54	0.21	0.37	0.32
1.60	23.30	10.10	61.60	12.60	4.42	0.34	0.59	0.54	0.22	0.38	0.32
1.70	21.70	9.70	70.40	12.50	4.71	0.35	0.60	0.54	0.23	0.40	0.32
1.80	20.50	9.40	79.60	12.40	4.95	0.36	0.61	0.55	0.24	0.41	0.32
1.90	19.50	9.00	89.80	12.30	5.18	0.36	0.61	0.55	0.24	0.42	0.32
2.00	18.70	8.80	101.00	12.30	5.39	0.37	0.62	0.55	0.25	0.43	0.32

Table 50-2 Two-way slab with three fixed edges and the rest simply supported



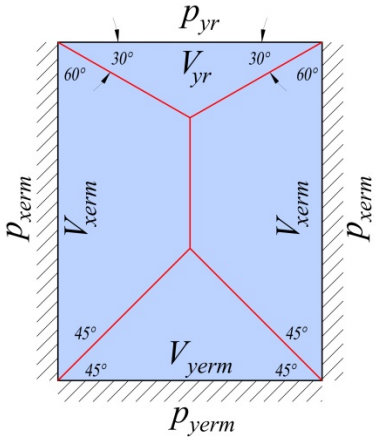
$M_x=p\cdot l_x^2/m_x$

$M_y=p\cdot l_x^2/m_y$

$M_{xerm}=-p\cdot l_x^2/m_{xerm}$

$M_{yerm}=-p\cdot l_x^2/m_{yerm}$

$f_m=a\cdot p\cdot l_x^4/(E\cdot h^3)$



$V_{xerm}=\rho_{xerm}\cdot p\cdot l_x$

$V_{yr}=\rho_{yr}\cdot p\cdot l_x$

$V_{yerm}=\rho_{yerm}\cdot p\cdot l_x$

$p_{xerm}=u_{xerm}\cdot p\cdot l_x$

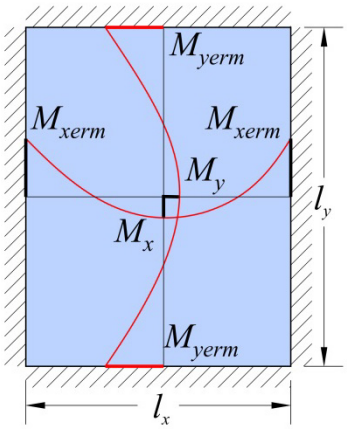
$p_{yr}=u_{yr}\cdot p\cdot l_x$

$p_{xerm}=u_{xerm}\cdot p\cdot l_x$

p_{ij}= equivalent uniform load

$\varepsilon=l_y/l_x$	m_x	m_{xerm}	m_y	m_{yerm}	100 a	ρ_{xerm}	ρ_{yr}	ρ_{yerm}	u_{xerm}	u_{yr}	u_{yerm}
1.00	44.10	16.20	55.90	18.30	1.88	0.47	0.25	0.45	0.30	0.14	0.25
1.05	40.50	15.30	57.50	17.90	2.02	0.49	0.25	0.47	0.31	0.14	0.25
1.10	37.90	14.80	60.30	17.70	2.14	0.50	0.25	0.48	0.32	0.14	0.25
1.15	35.50	14.20	64.20	17.60	2.26	0.51	0.25	0.48	0.33	0.14	0.25
1.20	33.80	13.90	66.20	17.50	2.36	0.51	0.25	0.48	0.34	0.14	0.25
1.25	32.30	13.50	67.70	17.50	2.45	0.52	0.25	0.48	0.34	0.14	0.25
1.30	31.00	13.20	69.00	17.50	2.53	0.52	0.24	0.47	0.35	0.14	0.25
1.35	29.90	12.90	70.50	17.50	2.61	0.52	0.24	0.47	0.35	0.14	0.25
1.40	29.00	12.70	72.00	17.50	2.68	0.52	0.24	0.47	0.36	0.14	0.25
1.45	28.20	12.60	73.40	17.50	2.74	0.52	0.24	0.46	0.36	0.14	0.25
1.50	27.60	12.50	75.20	17.50	2.80	0.52	0.24	0.46	0.37	0.14	0.25
1.60	26.50	12.30	78.70	17.50	2.89	0.52	0.24	0.46	0.38	0.14	0.25
1.70	25.70	12.20	82.50	17.50	2.98	0.52	0.24	0.46	0.38	0.14	0.25
1.80	25.10	12.10	86.80	17.50	3.03	0.52	0.24	0.45	0.39	0.14	0.25
1.90	24.70	12.00	91.70	17.50	3.07	0.51	0.24	0.45	0.40	0.14	0.25
2.00	24.50	12.00	97.00	17.50	3.09	0.51	0.24	0.45	0.40	0.14	0.25

Table 51 Two-way slab with four fixed edges



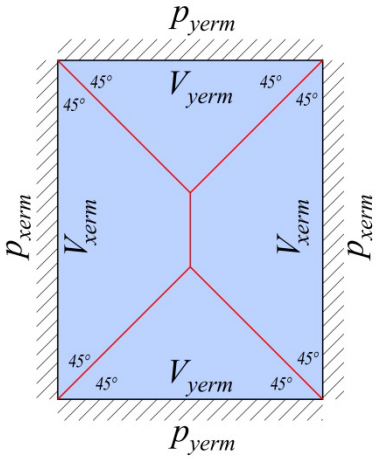
$M_x=p\cdot l_x^2/m_x$

$M_y=p\cdot l_x^2/m_y$

$M_{xerm}=-p\cdot l_x^2/m_{xerm}$

$M_{yerm}=-p\cdot l_x^2/m_{yerm}$

$f_m=a\cdot p\cdot l_x^4/(E\cdot h^3)$



$V_{xerm}=\rho_{xerm}\cdot p\cdot l_x$

$V_{yerm}=\rho_{yerm}\cdot p\cdot l_x$

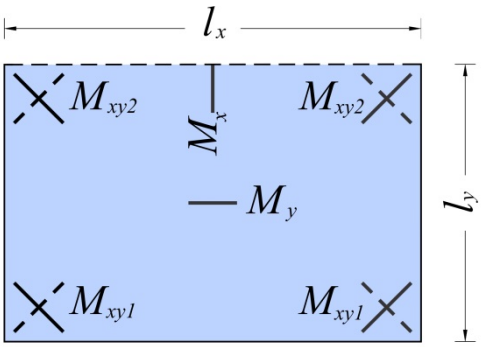
$p_{xerm}=u_{xerm}\cdot p\cdot l_x$

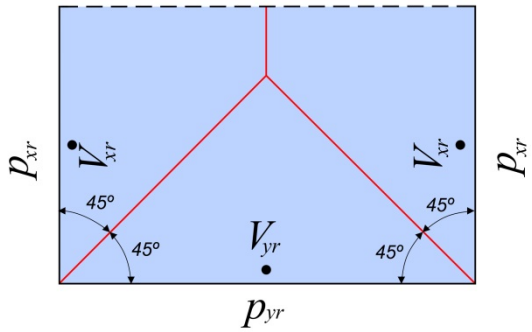
$p_{yerm}=u_{yerm}\cdot p\cdot l_x$

p_{ij}= equivalent uniform load

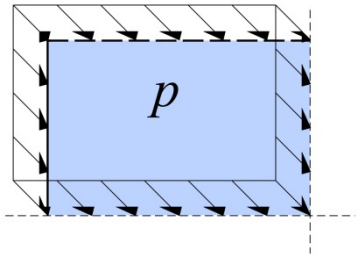
$\varepsilon=l_y/lx$	m_x	m_{xerm}	m_y	m_{yerm}	100 a	ρ_{xerm}	ρ_{yerm}	u_{xerm}	u_{yerm}
1.00	56.80	19.40	56.80	19.40	1.52	0.45	0.45	0.25	0.25
1.05	50.60	18.20	58.20	18.80	1.67	0.46	0.45	0.26	0.25
1.10	46.10	17.10	60.30	18.40	1.81	0.48	0.46	0.27	0.25
1.15	42.40	16.30	62.60	18.10	1.95	0.49	0.47	0.28	0.25
1.20	39.40	15.50	65.80	17.90	2.07	0.50	0.47	0.29	0.25
1.25	37.00	14.90	69.40	17.70	2.19	0.51	0.47	0.30	0.25
1.30	34.80	14.50	73.60	17.60	2.30	0.51	0.48	0.31	0.25
1.35	33.30	14.00	78.40	17.50	2.40	0.52	0.48	0.31	0.25
1.40	31.90	13.70	83.40	17.50	2.48	0.52	0.48	0.32	0.25
1.45	30.60	13.40	89.40	17.50	2.57	0.52	0.48	0.33	0.25
1.50	29.60	13.20	93.50	17.50	2.64	0.52	0.47	0.33	0.25
1.60	28.10	12.80	98.10	17.50	2.77	0.52	0.47	0.34	0.25
1.70	26.90	12.50	101.30	17.50	2.87	0.52	0.47	0.35	0.25
1.80	26.00	12.30	103.30	17.50	2.94	0.52	0.47	0.36	0.25
1.90	25.40	12.10	104.60	17.50	3.00	0.52	0.47	0.37	0.25
2.00	25.00	12.00	105.00	17.50	3.04	0.52	0.47	0.38	0.25

Table 52 Three-edge-supported slab, simply supported along all three edges





1. Uniform load



$M_x = p \cdot l_y^2 / m_x$

$M_y = p \cdot l_y^2 / m_y$

$M_{xy1} = \pm p \cdot l_y^2 / m_{xy1}$

$M_{xy2} = \pm p \cdot l_y^2 / m_{xy2}$

$f_m = a \cdot p \cdot l_y^4 / (E \cdot h^3)$

$V_{xr} = \rho_{xr} \cdot p \cdot l_y$

$V_{yr} = \rho_{yr} \cdot p \cdot l_y$

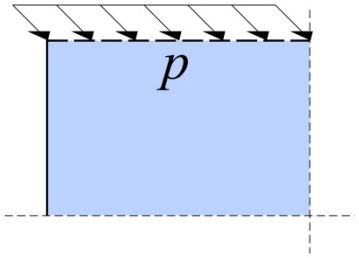
$p_{xr} = u_{xr} \cdot p \cdot l_y$

$p_{yr} = u_{yr} \cdot p \cdot l_y$

p_{ij} = equivalent uniform load

$\varepsilon = l_y : l_x$	0.25	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50
m_x	4.04	4.12	4.41	4.89	5.53	6.34	7.32	8.46	9.77	11.25	12.90	14.73	16.73	18.90
m_y	8.43	8.92	10.51	12.95	16.44	20.94	26.58	33.47	41.67	50.42	59.99	70.42	81.67	93.75
m_{xy1}	2.23	2.74	3.84	5.10	6.58	8.31	10.32	12.65	15.30	18.27	21.56	25.17	19.10	33.34
m_{xy2}	2.90	3.83	6.32	10.07	15.79	24.47	37.57	57.22	80.46	129.7	193.3	286.3	421.8	618.4
100a	550	367	187	106	64.3	40.9	27.0	18.4	12.9	9.2	6.8	5.0	3.8	2.9
ρ_{xr}	0.53	0.53	0.52	0.51	0.50	0.48	0.45	0.43	0.40	0.38	0.36	0.34	0.32	0.31
ρ_{yr}	1.00	0.98	0.93	0.87	0.80	0.72	0.66	0.60	0.55	0.50	0.46	0.43	0.40	0.37
u_{xr}	0.50	0.50	0.50	0.50	0.49	0.46	0.43	0.40	0.38	0.35	0.33	0.31	0.29	0.28
u_{yr}	0.75	0.70	0.60	0.50	0.42	0.36	0.31	0.28	0.25	0.23	0.21	0.19	0.18	0.17

2. Uniformly distributed force on the free edge



$M_x = p \cdot l_y^2 / m_x$

$M_y = p \cdot l_y^2 / m_y$

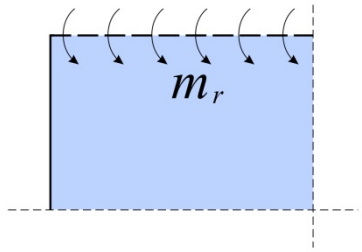
$M_{xy1} = \pm p \cdot l_y^2 / m_{xy1}$

$M_{xy2} = \pm p \cdot l_y^2 / m_{xy2}$

$f_m = a \cdot p \cdot l_y^3 / (E \cdot h^3)$

$\varepsilon = l_y : l_x =$	0.25	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50
m_x	2.04	2.07	2.24	2.46	2.73	3.04	3.38	3.75	4.12	4.52	4.92	5.32	5.71	6.12
m_y	61.3	43.5	31.2	25.8	22.4	21.1	2.10	21.9	23.4	25.0	26.8	28.6	30.5	32.6
m_{xy1}	0.33	0.42	0.64	0.94	1.34	1.88	2.66	3.75	5.20	7.15	9.90	13.8	18.9	26.0
m_{xy2}	0.31	0.39	0.55	0.74	0.93	1.12	1.32	1.52	1.73	1.93	2.13	2.33	2.55	2.75
100a	11.0	7.1	3.8	2.2	1.4	0.9	0.6	0.4	0.3	0.2	0.2	0.1	0.1	0.1

3. Uniformly distributed moment on the free edge



$M_{x,min} = -m_r / m_{xmin}$ $M_y = -m_r / m_y$

$M_{x,max} = m_r / m_{xmax}$,

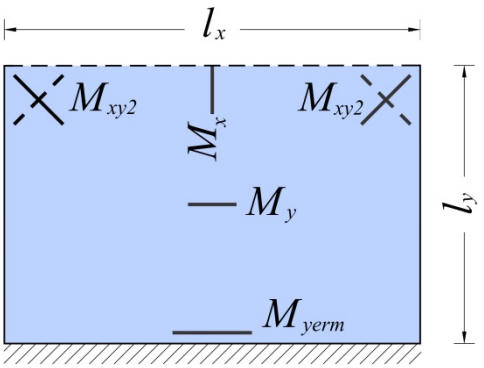
$M_{xy1} = \pm m_r / m_{xy1}$, $M_{xy2} = \pm m_r / m_{xy2}$

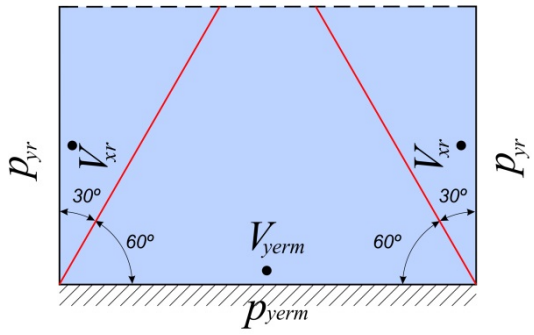
$M_{xy2} = \pm p \cdot l_y^2 / m_{xy2}$

$f_m = a \cdot m_r \cdot l_y^2 / (E \cdot h^3)$

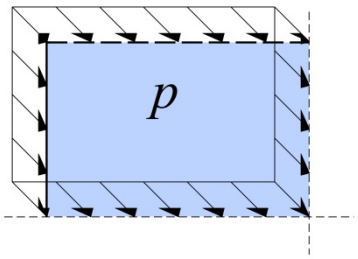
$\varepsilon = l_y : l_x =$	0.25	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50
m_{xmax}	2.07	2.14	2.30	2.47	2.63	2.74	2.84	2.91	2.94	2.96	2.97	2.98	2.99	3.00
m_{xmin}	-	-	-	-	-	-	47.5	54.0	33.1	24.5	21.1	19.4	18.9	18.9
m_y	2.02	2.07	2.24	2.55	3.01	3.65	4.52	5.68	7.28	9.52	12.5	16.3	22.2	32.2
m_{xy1}	-0.44	-0.61	-1.23	-2.80	-10.6	17.9	7.95	6.40	6.15	6.35	7.05	8.60	10.2	11.5
m_{xy2}	0.20	0.22	0.25	0.27	0.29	0.30	0.32	0.33	0.34	0.36	0.37	0.39	0.40	0.42
100a	11.3	7.4	4.0	2.3	1.5	1.1	0.8	0.6	0.5	0.4	0.3	0.3	0.2	0.2

Table 53-1 Three-edge-supported slab, fixed along the edge opposite the free edge and simply supported along the other two edges





1. Uniform load



$M_x=p\cdot l_y^2/m_x$

$M_y=p\cdot l_y^2/ m_y$

$M_{yerm}=-p\cdot l_y^2/ m_{yerm}$

$M_{xy2}=\pm p\cdot l_y^2/ m_{xy2}$

$f_m=a\cdot p\cdot l_y^4/(E\cdot h^3)$

$V_{xr}=\rho_{xr}\cdot p\cdot l_y$

$V_{yerm}= \rho_{yerm}\cdot p\cdot l_y$

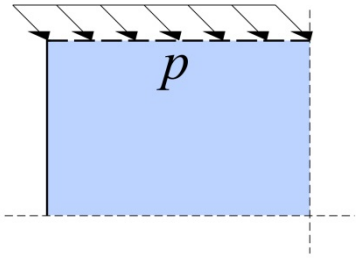
$p_{xr}=u_{xr}\cdot p\cdot l_y$

$p_{yerm}= u_{yr}\cdot p\cdot l_y$

p_{ij}= equivalent uniform load

$\varepsilon=l_y:l_x=$	0.25	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50
m_x	26.43	18.09	11.75	9.71	9.09	9.13	9.59	10.36	11.37	12.61	14.06	15.72	17.58	19.64
m_y	170.0	90.0	46.80	35.71	33.33	35.35	39.68	45.36	54.48	66.44	78.48	92.89	110.6	132.3
m_{yerm}	2.26	2.42	2.85	3.41	4.11	4.94	5.95	7.14	8.51	10.06	11.79	13.72	15.82	18.13
m_{xy}	8.00	8.32	9.11	10.38	12.21	14.66	17.87	21.09	27.24	33.83	42.07	52.32	65.00	80.73
100a	120	105	78	56.3	40.4	29.0	20.9	15.2	11.1	8.3	6.2	4.7	3.6	2.8
ρ_{xr}	0.21	0.21	0.23	0.26	0.28	0.30	0.32	0.32	0.32	0.32	0.31	0.30	0.29	0.28
ρ_{yerm}	1.03	1.04	1.04	1.01	0.96	0.90	0.83	0.78	0.71	0.66	0.61	0.56	0.53	0.49
u_{xr}	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.29	0.28	0.28	0.27	0.26	0.25	0.24
u_{yerm}	0.86	0.83	0.77	0.71	0.65	0.60	0.54	0.48	0.43	0.39	0.36	0.33	0.31	0.29

2. Uniformly distributed force on the free edge



$M_x=p\cdot l_y/m_x$

$M_y=-p\cdot l_y/ m_y$

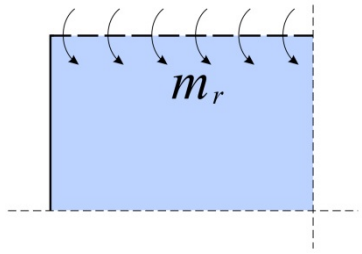
$M_{yerm}=-p\cdot l_x/ m_{yerm}$

$M_{xy2}=\pm p\cdot l_x/ m_{xy2}$

$f_m=a\cdot p\cdot l_y^3/(E\cdot h^3)$

$\varepsilon=l_y:l_x=$	0.25	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50
m_x	16.9	15.4	13.2	11.1	10.3	10.4	11.0	12.1	13.6	15.6	18.1	21.1	24.6	29.1
m_y	2.70	3.18	4.60	6.65	9.42	12.7	16.5	20.6	23.6	25.4	27.2	29.1	31.2	33.5
m_{yerm}	1.18	1.30	1.66	2.19	2.94	4.03	5.56	7.63	10.5	14.4	20.2	28.2	39.6	54.3
$\pm m_{xy}$	0.65	0.66	0.71	0.82	0.95	1.12	1.30	1.48	1.68	1.89	2.10	2.32	2.53	2.75
100a	3.1	2.8	2.0	1.5	1.1	0.7	0.5	0.4	0.3	0.2	0.2	0.1	0.1	0.1

3. Uniformly distributed moment on the free edge



$M_{x,max}=m_r/m_{xmax}$,

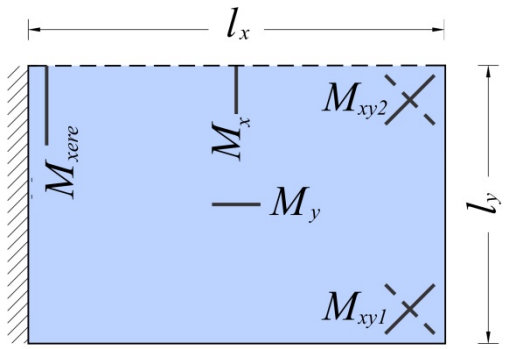
$M_{yerm}=-m_r/m_{yerm}$, $M_{xy2}=\pm m_r/ m_{xy2}$ $M_{x,min}=-m_r/m_{xmin}M_y=-m_r/ m_y$

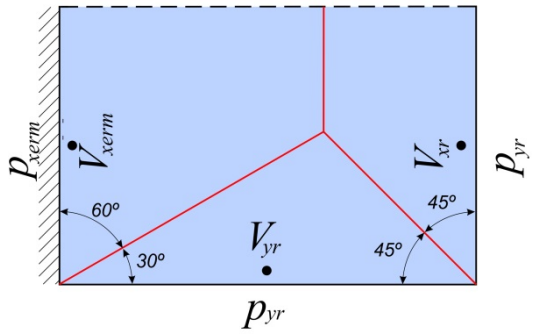
$M_{xy2}=\pm m_r/m_{xy2}$

$f_m=a\cdot m_r\cdot l_y^2/(E\cdot h^3)$

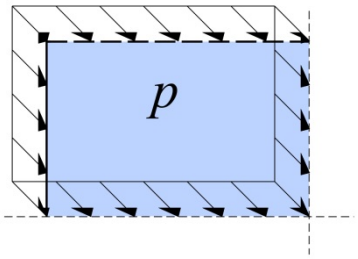
$\varepsilon=l_y:l_x=$	0.25	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50
m_{xmax}	6.50	4.67	3.30	2.86	2.73	2.73	2.76	2.81	2.86	2.90	2.94	2.97	2.99	3.00
m_{xmin}	-	-	-	710	400	250	155	90.0	52.7	35.5	29.5	22.9	21.0	20.6
m_y	1.25	1.41	1.81	2.31	2.93	3.64	4.64	5.83	7.46	12.1	12.5	16.4	22.2	31.8
m_{yerm}	1.38	1.68	2.83	5.90	20.7	-33.9	-15.7	-12.9	-12.0	-12.5	-13.5	-15.4	-18.2	-23.5
m_{xy}	0.27	0.27	0.27	0.27	0.29	0.30	0.32	0.33	0.34	0.36	0.37	0.39	0.40	0.42
100f	4.6	4.0	2.9	2.1	1.5	1.1	0.8	0.6	0.5	0.4	0.3	0.3	0.2	0.2

Table 53-2 Three-edge-supported slab, fixed along the edge perpendicular to the free edge and simply supported along the other two edges





1. Uniform load



$M_x=p\cdot l_y^2/m_x$

$M_y=p\cdot l_y^2/ m_y$

$M_{xy1}=\pm p\cdot l_y^2/ m_{xy1}$

$M_{xere}=-p\cdot l_y^2/ m_{xere}$

$f_m=a\cdot p\cdot l_y^4/(E\cdot h^3)$

$V_{xr}=\rho_{xr}\cdot p\cdot l_y$

$V_{xere}= \rho_{xere}\cdot p\cdot l_y$

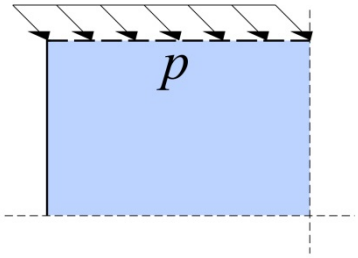
$p_{xr}=u_{xr}\cdot p\cdot l_y$

$p_{xere}= u_{xere}\cdot p\cdot l_y$

p_{ij}= equivalent uniform load

$\varepsilon=l_y:l_x=$	0.25	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50
m_x	4.18	4.13	4.88	5.91	7.23	8.75	10.49	12.60	14.95	17.85	20.94	24.31	28.10	32.18
m_y	9.05	10.05	12.95	17.06	22.64	29.69	38.43	48.50	59.88	72.45	86.22	101.2	117.4	134.7
m_{xere}	0.80	1.02	1.53	2.18	2.98	3.94	5.08	6.40	7.89	9.56	11.40	13.41	15.58	17.92
m_{xy1}	2.48	3.12	4.61	6.46	8.74	11.44	14.71	18.42	22.63	27.31	32.45	38.06	44.13	50.66
m_{xy2}	3.35	4.91	8.34	14.82	25.90	44.88	77.29	132.6	227.2	389.6	669.8	1157	2016	3549
100f	446	283	131	67.8	37.9	22.5	14.0	9.1	6.1	4.2	3.0	2.2	1.6	1.2
ρ_{xr}	0.53	0.53	0.51	0.50	0.46	0.43	0.40	0.37	0.34	0.32	0.32	0.28	0.26	0.25
ρ_{yr}	1.13	1.06	0.98	0.89	0.83	0.77	0.71	0.65	0.5:	0.56	0.52	0.48	0.45	0.42
ρ_{xerm}	0.71	0.68	0.60	0.52	0.45	0.40	0.35	0.31	0.29	0.26	0.24	0.22	0.20	0.19
u_{xr}	0.29	0.29	0.86	0.80	0.73	0.67	0.61	0.56	0.52	0.48	0.45	0.42	0.39	0.37
u_{yr}	0.50	0.50	0.50	0.46	0.42	0.39	0.35	0.32	0.30	0.28	0.26	0.24	0.23	0.21
u_{xerm}	0.66	0.59	0.46	0.37	0.31	0.26	0.23	0.20	0.18	0.17	0.15	0.14	0.13	0.12

2. Uniformly distributed force on the free edge



$M_x=p\cdot l_y/m_x$, $M_y=-p\cdot l_y/ m_y$

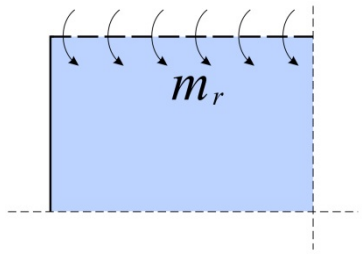
$M_{xy1}=\pm p\cdot l_y/ m_{yerm}$, $M_{xy2}=\pm p\cdot l_y/ m_{xy2}$

$M_{xere}=-p\cdot l_y/ m_{xere}$

$f_m=a\cdot p\cdot l_y^3/(E\cdot h^3)$

$\varepsilon=l_y:l_x=$	0.25	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50
m_x	2.09	2.18	2.47	2.86	3.31	3.82	4.34	4.89	5.43	5.98	6.53	7.09	7.64	8.19
m_y	8.23	9.75	11.4	13.2	14.2	15.3	16.6	18.2	20.2	22.4	24.5	26.3	28.4	30.8
m_{xere}	0.45	0.52	0.68	0.86	1.03	1.22	1.40	1.58	1.78	1.97	2.17	2.37	2.58	2.79
m_{xy1}	0.37	0.48	0.80	1.28	2.03	3.21	5.08	8.10	13.0	20.8	33.8	55.1	91.0	153
m_{xy2}	0.35	0.44	0.65	0.88	1.10	1.33	1.55	1.76	1.98	2.20	2.42	2.65	2.88	3.11
100f	9.30	5.90	2.80	1.50	0.90	0.60	0.40	0.30	0.20	0.10	0.10	0.10	0.10	0.10

3. Uniformly distributed moment on the free edge



$M_{x,max}=m_r/m_{xmax}$, $M_{x,min}=-m_r/m_{xmin}$,

$M_{y,min}=-m_r/m_{ymin}$

$M_{xy1}=\pm m_r/m_{xy1}$, $M_{xy2}=\pm m_r/ m_{xy2}$

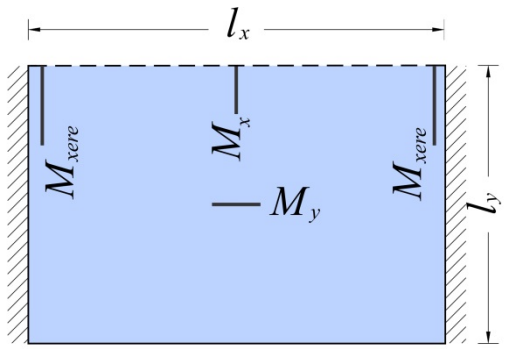
$M_{xere\ min}=-m_r/m_{xeremin}$, $M_{xere\ max}=m_r/m_{xeremax}$

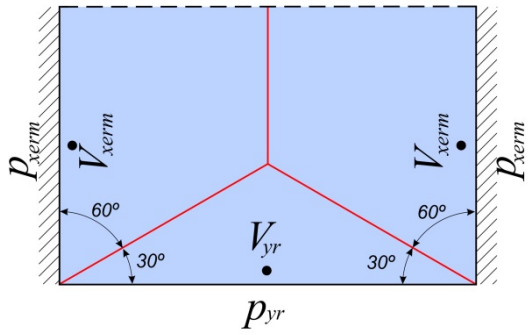
$f_m=a\cdot m_r\cdot l_y^2/(E\cdot h^3)$

$M_{y,max}=m_r/m_{ymax}$

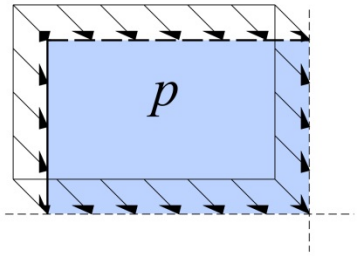
$\varepsilon=l_y:l_x=$	0.25	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50
m_{xmax}	2.12	2.22	2.48	2.71	2.88	3.00	3.04	3.04	3.08	3.10	3.13	3.13	3.14	3.15
m_{xmin}	-	-	-	-	-	15.2	16.2	18.0	17.0	17.0	17.3	17.1	16.8	16.8
m_{ymin}	1.95	2.00	2.16	2.51	3.06	3.88	5.09	6.87	9.49	13.5	19.9	31.3	54.6	121
m_{ymax}	-	-	-	-	-	-	-	-	-	340	185	135	107	94.3
$m_{xeremin}$	0.39	0.42	0.48	0.51	0.52	0.54	0.55	0.56	0.57	0.58	0.60	0.61	0.63	0.65
$m_{xeremax}$	-	-	-	13.8	7.35	5.62	5.10	4.72	4.65	4.63	4.50	4.52	4.61	4.76
m_{xy1}	-0.50	-0.74	-1.79	-7.25	12.9	5.70	4.88	5.00	5.70	6.85	8.55	11.0	14.5	19.5
m_{xy2}	0.21	0.23	0.26	0.27	0.28	0.29	0.31	0.32	0.33	0.34	0.35	0.37	0.38	0.40
100f	9.60	6.10	3.00	1.80	1.20	0.80	0.60	0.50	0.40	0.30	0.30	0.20	0.20	0.20

Table 54 Three-edge-supported slab, fixed along two opposite edges and simply supported along the third edge





1. Uniform load



$M_x=p\cdot l_y^2/m_x$, $M_y=p\cdot l_y^2/ m_y$

$M_{xere}=-p\cdot l_y^2/ m_{xere}$

$f_m=a\cdot p\cdot l_y^4/(E\cdot h^3)$

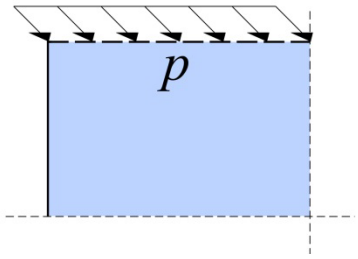
$V_{xerm}=\rho_{xerm}\cdot p\cdot l_y$, $V_{yr}= \rho_{yr}\cdot p\cdot l_y$

$p_{xerm}=u_{xerm}\cdot p\cdot l_y$, $p_{yr}= u_{yr}\cdot p\cdot l_y$

p_{ij}= equivalent uniform load

$\varepsilon=l_y:l_x=$	0.25	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50
m_x	4.30	4.67	5.80	7.42	9.58	12.27	15.53	19.35	23.76	28.73	34.22	40.24	46.76	53.74
m_y	9.72	11.11	15.38	21.36	29.03	38.58	49.61	61.38	76.33	92.36	110.8	131.0	151.9	174.4
m_{xere}	0.90	1.20	1.89	2.83	4.04	5.53	7.30	9.35	11.67	14.25	17.07	20.13	23.43	26.96
100a	362	219	92.7	44.4	23.3	13.1	7.8	4.9	3.2	2.2	1.6	1.1	0.8	0.6
ρ_{xerm}	1.10	1.03	0.93	0.84	0.76	0.68	0.62	0.56	0.51	0.47	0.43	0.40	0.37	0.34
ρ_{yr}	0.69	0.65	0.55	0.46	0.39	0.34	0.30	0.27	0.24	0.22	0.20	0.19	0.17	0.16
u_{xerm}	0.87	0.86	0.80	0.71	0.63	0.57	0.51	0.47	0.43	0.39	0.37	0.34	0.32	0.30
u_{yr}	0.57	0.48	0.36	0.29	0.24	0.21	0.18	0.16	0.14	0.13	0.12	0.11	0.10	0.10

2. Uniformly distributed force on the free edge



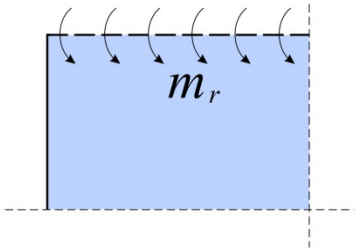
$M_x=p\cdot l_y/m_x$, $M_y=-p\cdot l_y/ m_y$

$M_{xere}=-p\cdot l_y/ m_{xere}$

$f_m=a\cdot p\cdot l_y^3/(E\cdot h^3)$

$\varepsilon=l_y:l_x=$	0.25	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50
m_x	2.20	2.36	2.88	3.53	4.23	4.97	5.71	6.45	7.18	7.91	8.64	9.37	10.1	10.9
m_y	14.5	12.6	11.9	12.1	12.6	14.1	15.6	17.7	19.7	22.0	24.4	26.8	29.1	31.4
m_{xere}	0.49	0.59	0.79	1.02	1.24	1.48	1.71	1.94	2.19	2.43	2.69	2.95	3.23	3.51
100a	7.7	4.7	2.1	1.1	0.6	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.05	0.05

3. Uniformly distributed moment on the free edge



$M_{x,max}=m_r/m_{xmax}$,

$M_{x,min}= -m_r/m_{xmin}$,

$M_{xere\ min} =-m_r/m_{xeremin}$,

$f_m=a\cdot m_r\cdot l_y^2/(E\cdot h^3)$

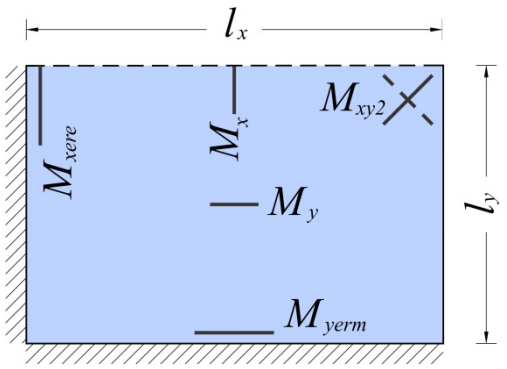
$M_{y,max}=m_r/m_{ymax}$

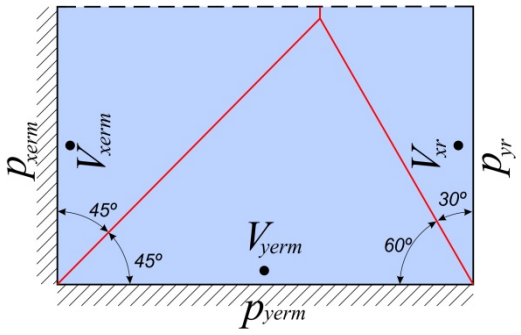
$M_{y,min}= -m_r/m_{ymin}$

$M_{xere\ max} =m_r/m_{xeremax}$

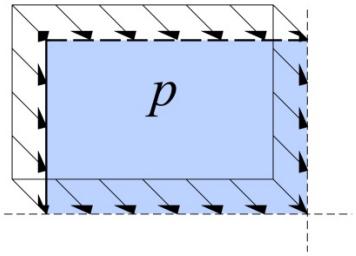
$\varepsilon=l_y:l_x=$	0.25	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50
m_{xmin}	2.21	2.41	2.82	3.16	3.37	3.46	3.49	3.49	3.50	3.50	3.51	3.51	3.52	3.54
m_{xmax}	1.73	3.05	6.65	12.3	22.5	25.0	21.3	17.8	16.3	16.3	16.9	18.3	20.4	23.2
m_{ymin}	1.93	1.96	2.13	2.53	3.21	4.22	5.95	8.62	13.3	22.2	41.7	125	-400	-125
m_{ymax}	-	-	-	-	-	-	-	-	210	105	78.8	63.8	61.4	65.4
$m_{xeremin}$	0.42	0.46	0.52	0.55	0.57	0.59	0.61	0.62	0.64	0.67	0.69	0.72	0.74	0.77
$m_{xeremax}$	-	-	38.5	8.55	5.60	4.66	4.52	4.42	4.37	4.33	4.32	4.32	4.31	4.31
100a	8.0	5.0	2.5	1.5	1.0	0.7	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.1

Table 55 Three-edge-supported slab, fixed along two adjacent edges and simply supported along the third edge





1. Uniform load



$M_x=p\cdot l_y^2/m_x$, $M_y=p\cdot l_y^2/ m_y$

$M_{xere}=-p\cdot l_y^2/ m_{xere}$, $M_{yerm}=-p\cdot l_y^2/ m_{yerm}$

$M_{xy2}=p\cdot l_y^2/m_{xy2}$, $f_m=a\cdot p\cdot l_y^4/(E\cdot h^3)$

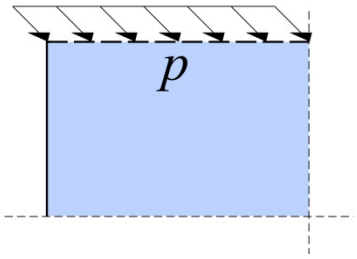
$V_{xr}=\rho_{xr}\cdot p\cdot l_y$, $V_{xerm}=\rho_{xerm}\cdot p\cdot l_y$, $V_{yerm}=\rho_{yerm}\cdot p\cdot l_y$

$p_{xr}=u_{xr}\cdot p\cdot l_y$,$p_{xerm}=u_{xerm}\cdot p\cdot l_y$, $p_{yerm}=u_{yerm}\cdot p\cdot l_y$

p_{ij}= equivalent uniform load

$\varepsilon=l_y:l_x=$	0.25	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50
m_x	14.08	12.98	10.86	9.80	9.80	10.63	12.04	13.69	15.87	18.51	21.27	24.39	27.77	31.25
m_y	133.3	76.92	43.47	38.40	40.00	43.47	54.05	67.56	80.00	100.0	120.5	140.8	166.7	200.0
m_{xere}	2.11	2.20	2.50	2.96	3.60	4.43	5.45	6.66	8.06	9.66	11.44	13.40	15.53	17.84
m_{yerm}	2.33	2.56	3.20	4.11	5.28	6.74	8.48	10.53	12.86	15.47	18.35	21.51	24.93	28.61
m_{xy2}	8.56	8.73	9.95	12.07	15.29	19.84	26.10	34.60	45.87	60.60	80.80	105.3	138.9	181.8
100a	114	96.6	65.7	43.1	28.1	18.4	12.2	8.3	5.8	4.1	2.9	2.2	1.6	1.2
ρ_{xr}	0.21	0.22	0.25	0.28	0.30	0.31	0.31	0.31	0.30	0.28	0.27	0.26	0.25	0.24
ρ_{xerm}	0.43	0.44	0.48	0.51	0.55	0.56	0.56	0.54	0.52	0.50	0.48	0.45	0.43	0.40
ρ_{yerm}	1.02	1.03	0.99	0.92	0.83	0.75	0.67	0.61	0.55	0.50	0.46	0.42	0.39	0.37
u_{xerm}	0.50	0.50	0.50	0.50	0.50	0.50	0.48	0.46	0.43	0.41	0.39	0.37	0.35	0.33
u_{xr}	0.29	0.29	0.29	0.29	0.29	0.29	0.28	0.26	0.25	0.24	0.22	0.21	0.20	0.19
u_{yerm}	0.80	0.76	0.68	0.61	0.53	0.45	0.39	0.35	0.32	0.29	0.26	0.24	0.23	0.21

2. Uniformly distributed force on the free edge



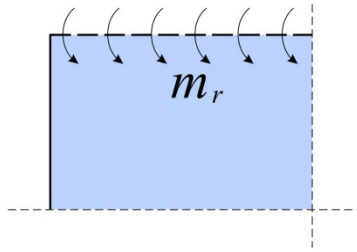
$M_x=p\cdot l_y/m_x$, $M_y=-p\cdot l_y/ m_y$

$M_{xere}=-p\cdot l_y/ m_{xere}$, $M_{yerm}=-p\cdot l_y/ m_{yerm}$

$M_{xy2}=p\cdot l_y^2/m_{xy2}$, $f_m=a\cdot p\cdot l_y^3/(E\cdot h^3)$

$\varepsilon=l_y:l_x=$	0.25	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50
m_x	5.55	5.04	4.24	3.88	3.91	4.17	4.54	5.00	5.49	6.01	6.55	7.10	7.64	8.19
m_y	2.83	3.42	5.12	7.50	10.4	13.7	17.4	21.5	26.5	32.5	39.5	48.1	59.1	72.3
m_{xere}	0.98	0.93	0.93	1.00	1.13	1.26	1.42	1.60	1.78	1.97	2.17	2.37	2.58	2.79
m_{yerm}	1.22	1.40	1.92	2.80	4.23	6.54	10.3	16.6	26.8	43.8	72.7	122	207	359
m_{xy2}	0.65	0.67	0.75	0.90	1.09	1.30	1.52	1.74	1.97	2.19	2.41	2.64	2.88	3.11
100a	3.0	2.6	1.8	1.2	0.8	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1

3. Uniformly distributed moment on the free edge



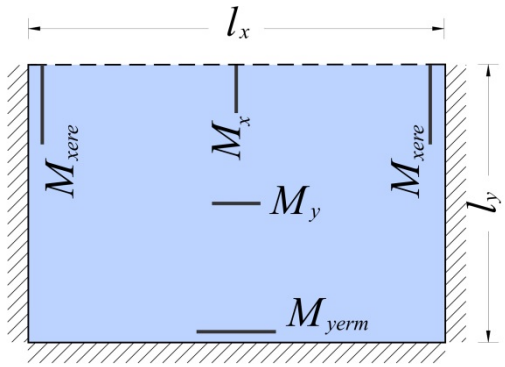
$M_{x,max}=m_r/m_{xmax}$, $M_{x,min}=-m_r/m_{xmin}$, $M_y=-m_r/m_y$

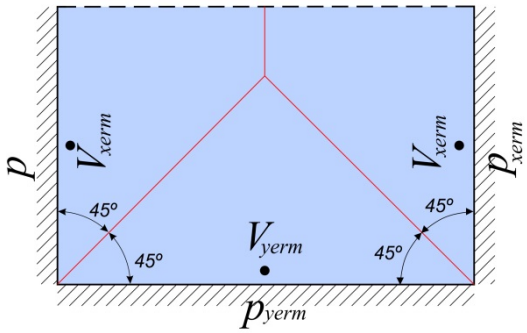
$M_{xere\ min}=-m_r/m_{xeremin}$, $M_{xere\ max}=m_r/m_{xeremax}$ $M_{yere\ min}=m_r/m_{yeremin}$

$M_{yere\ max}=m_r/m_{yeremax}$, $M_{xy2}=p\cdot l_y^2/m_{xy2}$, $f_m=a\cdot m_r\cdot l_y^2/(E\cdot h^3)$

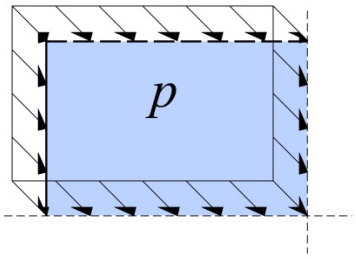
$\varepsilon=l_y:l_x=$	0.25	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50
m_{xmax}	3.46	2.29	3.03	2.83	2.81	2.87	2.95	3.01	3.06	3.09	3.11	3.12	3.13	3.15
m_{xmin}	-	-	-	6.54	5.83	7.89	5.84	7.23	9.22	12.2	17.1	17.9	17.2	17.1
m_y	1.29	1.46	1.91	2.45	3.14	4.03	5.26	7.01	9.58	13.4	19.6	30.4	52.4	112
$m_{xeremin}$	0.61	0.56	0.52	0.51	0.52	0.53	0.54	0.56	0.57	0.58	0.60	0.61	0.63	0.65
$m_{xeremax}$	-	-	27.0	16.0	10.2	7.35	6.37	5.35	5.05	4.81	4.61	4.59	4.65	4.78
$m_{yermmin}$	1.45	1.86	2.78	13.5	-18.1	-9.51	-8.54	-9.15	-10.7	-13.4	-17.2	-23.0	-31.3	-43.5
m_{yermax}	-	-	13.5	13.4	11.3	9.21	8.54	9.15	10.7	13.1	16.7	22.0	29.7	40.8
m_{xy2}	0.27	0.26	0.26	0.27	0.28	0.30	0.31	0.32	0.33	0.34	0.35	0.37	0.38	0.40
100a	4.47	3.81	2.59	1.78	1.19	0.875	0.647	0.494	0.400	0.331	0.278	0.229	0.197	0.172

Table 56 Three-edge-supported slab, fixed along all three edges





1. Uniform load



$M_x=p\cdot l_y^2/m_x$, $M_y=p\cdot l_y^2/ m_y$

$M_{xere}=-p\cdot l_y^2/ m_{xere}$, $M_{yerm}=-p\cdot l_y^2/ m_{yerm}$

$f_m=a\cdot p\cdot l_y^4/(E\cdot h^3)$

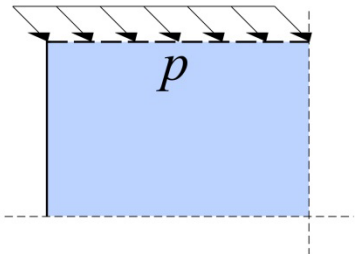
$V_{xerm}= \rho_{xerm}\cdot p\cdot l_y$, $V_{yerm}= \rho_{yerm}\cdot p\cdot l_y$

$p_{xerm}= u_{xerm}\cdot p\cdot l_y$, $p_{yerm}= u_{yerm}\cdot p\cdot l_y$

p_{ij}= equivalent uniform load

$\varepsilon=l_y:l_x=$	0.25	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50
m_x	19.24	13.91	10.69	10.64	11.87	13.94	16.73	20.18	24.29	29.02	34.35	40.26	46.71	53.69
m_y	104.2	62.46	43.24	41.67	48.00	58.45	72.73	89.55	108.7	131.5	156.5	183.7	213.0	244.6
m_{xere}	2.15	2.27	2.71	3.43	4.45	5.77	7.41	9.35	11.59	14.11	16.90	19.94	23.22	26.73
m_{yerm}	2.41	2.71	3.61	4.93	6.66	8.81	11.34	14.29	17.59	21.26	25.28	29.66	34.39	39.47
100a	108.1	88.4	54.8	32.7	19.5	11.8	7.4	4.8	3.2	2.2	1.6	1.1	0.8	0.6
ρ_{xere}	0.44	0.45	0.50	0.53	0.55	0.54	0.52	0.50	0.47	0.44	0.41	0.38	0.36	0.34
ρ_{yerm}	1.03	1.02	0.95	0.85	0.75	0.65	0.58	0.52	0.46	0.42	0.39	0.36	0.33	0.31
u_{xere}	0.50	0.50	0.50	0.50	0.49	0.46	0.43	0.40	0.38	0.35	0.33	0.31	0.29	0.28
u_{yerm}	0.75	0.70	0.60	0.50	0.42	0.36	0.31	0.28	0.25	0.23	0.21	0.19	0.18	0.17

2. Uniformly distributed force on the free edge



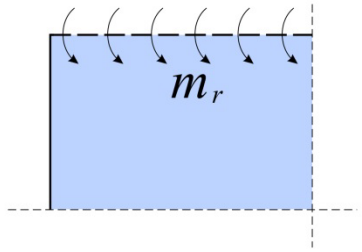
$M_x=p\cdot l_y/m_x$, $M_y=-p\cdot l_y/ m_y$

$M_{xere}=-p\cdot l_y/ m_{xere}$, $M_{yerm}=-p\cdot l_y/ m_{yerm}$

$f_m=a\cdot p\cdot l_y^3/(E\cdot h^3)$

$\varepsilon=l_y:l_x=$	0.25	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50
m_x	7.80	5.64	4.32	4.23	4.57	5.15	5.77	6.47	7.18	7.91	8.64	9.37	10.1	10.9
m_y	2.95	3.66	5.72	8.35	11.4	14.0	15.8	17.6	19.7	22.0	24.4	26.8	29.1	31.4
m_{xere}	0.99	0.95	0.99	1.11	1.28	1.48	1.71	1.94	2.19	2.43	2.69	2.95	3.23	3.51
m_{yerm}	1.26	1.49	2.29	3.88	6.72	13.1	26.3	57.7	130	297	-	-	-	-
100a	3.0	2.5	1.4	0.9	0.6	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.05	0.05

3. Uniformly distributed moment on the free edge



$M_{x,max}=m_r/m_{xmax}$, $M_{x,min}=-m_r/m_{xmin}$, $M_y=-m_r/m_y$

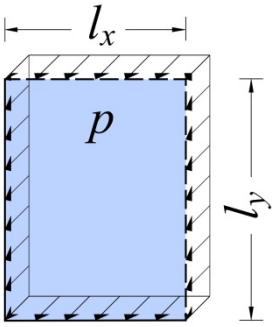
$M_{xere\ min}=-m_r/m_{xeremin}$, $M_{xere\ max}=m_r/m_{xeremax}$ $M_{yerm}=-m_r/m_{yerm}$

$f_m=a\cdot m_r\cdot l_y^2/(E\cdot h^3)$

$\varepsilon=l_y:l_x=$	0.25	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50
m_{xmax}	5.40	4.00	3.14	3.07	3.18	3.29	3.40	3.44	3.48	3.49	3.50	3.52	3.53	3.54
m_{xmin}	5.98	7.00	8.20	11.6	18.5	29.5	27.8	21.3	18.5	17.5	17.9	18.7	20.4	23.4
m_y	1.32	1.52	2.01	2.60	3.36	4.39	6.07	8.62	13.1	21.7	40.0	100	¥	-130
$m_{xeremin}$	0.61	0.57	0.54	0.55	0.56	0.57	0.60	0.62	0.64	0.67	0.69	0.72	0.74	0.77
$m_{xeremax}$	300	69.0	23.2	12.2	7.82	6.03	5.10	4.72	4.52	4.42	4.37	4.33	4.31	4.31
m_{yerm}	1.52	2.08	6.05	-29.2	-8.03	-6.90	-7.55	-9.00	-12.7	-18.5	-27.8	-41.7	-66.7	-115
100a	4.4	3.6	2.3	1.5	1.0	0.7	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.1

Table 57 Two-edge-supported slab, simply supported along both edges

1. Uniform load p

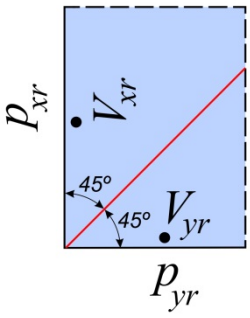


$K= p \cdot l_x \cdot l_y$, $M=K/m$, $f_m=a \cdot p \cdot l_x^4/(E \cdot h^3)$

$V_{xr}= \rho_{xr} \cdot K/l_y$, $V_{yr}= \rho_{xr} \cdot K/l_x$

$p_{xr}= u_{xr} \cdot K/l_y$, $p_{yr}= u_{yr}\ K/l_x$

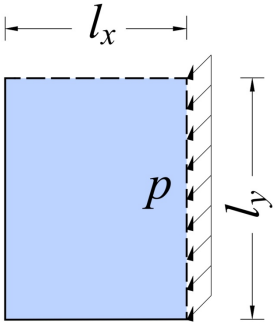
p_{ij}= equivalent uniform load



$\varepsilon=l_y:l_x=$	1.00	1.25	1.50	1.75	2.00
m_{xmin}	-4.81	-4.79	-4.72	-4.65	-4.60
m_{xmax}	4.81	4.79	4.72	4.65	4.60
m_{ymin}	-4.81	-4.79	-4.72	4.65	-4.60
m_{ymax}	4.81	4.47	4.29	4.24	4.20
100a	150	235	337	458	600
ρ_{xr}	0.58	0.67	0.75	0.81	0.85
ρ_{yr}	0.44	0.39	0.34	0.30	0.27
u_{xr}	0.50	0.60	0.67	0.71	0.75
u_{yr}	0.50	0.40	0.33	0.29	0.25

2. Uniformly distributed force on line at $x=l_x$

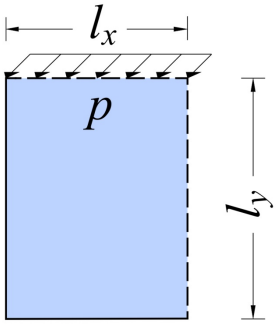
$K= p \cdot l_y$, $M=K/m$, $f_m=a \cdot p \cdot l_x^3/(E \cdot h^3)$



$\varepsilon=l_y:l_x=$	1.00	1.25	1.50	1.75	2.00
m_{xmin}	-2.64	-2.58	-2.52	-2.48	-2.44
m_{xmax}	2.64	2.58	2.52	2.48	2.44
m_{ymin}	-2.64	-2.58	-2.52	-2.48	-2.44
m_{ymax}	1.92	1.91	1.93	1.95	1.95
100a	300	469	674	916	1200

3. Uniformly distributed force on line at $y=l_y$

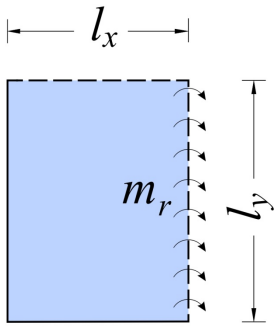
$K= p \cdot l_x$, $M=K/m$, $f_m=a \cdot p \cdot l_x^3/(E \cdot h^3)$



$\varepsilon=l_y:l_x=$	**1.00**	**1.25**	**1.50**	**1.75**	**2.00**
m_{xmin}	-2.64	-2.68	-2.72	-2.75	-2.79
m_{xmax}	1.92	1.94	1.94	1.95	1.95
m_{ymin}	-2.64	-2.68	-2.72	-2.75	-2.79
m_{ymax}	2.64	2.68	2.72	2.75	2.79
100a	300	374	449	524	600

4. Uniformly distributed moment m_R on line at $x=l_x$

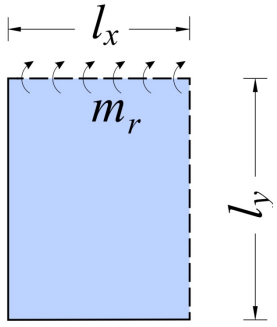
$K=m_R$, $M=K/m$, $f_m=a \cdot m_R \cdot l_x^2/(E \cdot h^3)$



$\varepsilon=l_y:l_x=$	1.00	1.25	1.50	1.75	2.00
m_{xmin}	-0.84	-0.84	-0.81	-0.79	-0.77
m_{xmax}	1.10	1.00	0.92	0.86	0.80
m_{ymin}	-1.10	-1.00	-0.92	-0.86	-0.80
m_{ymax}	1.10	1.00	0.92	0.86	0.80
100a	300	469	674	916	1200

5. Uniformly distributed moment m_R on line at $y=l_y$

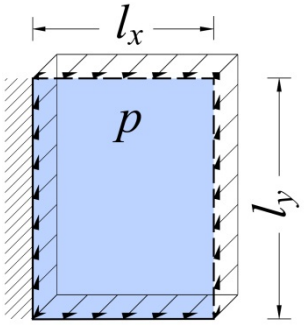
$K=m_R$, $M=K/m$, $f_m=a \cdot m_R \cdot l_x^2/(E \cdot h^3)$



$\varepsilon=l_y:l_x=$	**1.00**	**1.25**	**1.50**	**1.75**	**2.00**
m_{xmin}	-1.10	-1.20	-1.30	-1.40	-1.50
m_{xmax}	1.10	1.20	1.30	1.40	1.50
m_{ymin}	-0.84	-0.85	-0.85	-0.86	-0.86
m_{ymax}	1.10	1.20	1.30	1.40	1.50
100a	300	300	300	300	300

Table 58 Two-edge-supported slab, fixed along one edge and simply supported along the other edge

1. Uniform load p

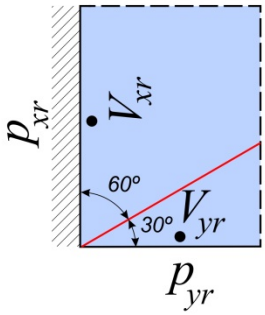


$K= p \cdot l_x \cdot l_y$, $M=K/m$, $f_m=a \cdot p \cdot l_x^4/(E \cdot h^3)$

$V_{xr}= \rho_{xr} \cdot K/l_y$, $V_{yr}= \rho_{xr} \cdot K/l_x$

$p_{xr}= u_{xr} \cdot K/l_y$, $p_{yr}= u_{yr}\ K/l_x$

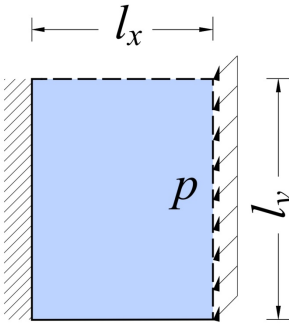
p_{ij}= equivalent uniform load



$\varepsilon=l_y:l_x=$	0.50	0.60	0.80	1.00	1.25	1.50	1.75	2.00
m_{xmin}	-1.94	-2.00	-2.20	-2.45	-2.81	-3.20	-3.61	-4.03
m_{xmax}	6.45	7.17	9.42	10.5	11.7	13.1	14.7	16.5
m_{ymin}	-7.73	-8.42	-9.52	-10.5	-11.7	-13.1	-14.7	-16.5
m_{ymax}	7.05	7.25	7.25	7.43	7.90	9.00	10.3	11.6
100a	420	269	129	69.8	88.9	104	117	126
ρ_{xr}	1.04	1.12	1.21	1.23	1.20	1.16	1.11	1.08
ρ_{yr}	0.70	0.60	0.47	0.38	0.31	0.26	0.22	0.19
u_{xr}	0.43	0.52	0.64	0.71	0.77	0.81	0.84	0.86
u_{yr}	0.57	0.48	0.36	0.29	0.23	0.19	0.16	0.14

2. Uniformly distributed force on line at $x=l_x$

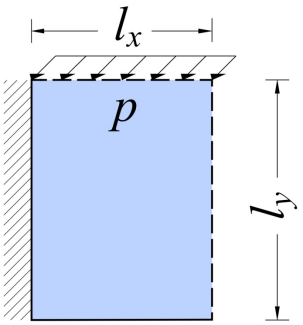
$K= p \cdot l_y$, $M=K/m$, $f_m=a \cdot p \cdot l_x^3/(E \cdot h^3)$



$\varepsilon=l_y:l_x=$	0.50	0.60	0.80	1.00	1.25	1.50	1.75	2.00
m_{xmin}	-1.47	-1.43	-1.43	-1.49	-1.61	-1.77	-1.96	-2.16
m_{xmax}	2.82	2.82	2.92	3.13	3.50	3.96	4.48	5.06
m_{ymin}	-2.82	-2.82	-2.92	-3.13	-3.50	-3.96	-4.48	-5.06
m_{ymax}	1.99	2.01	2.14	2.36	2.64	2.99	3.45	3.84
100a	486	382	252	175	226	269	302	329

3. Uniformly distributed force on line at $y=l_y$

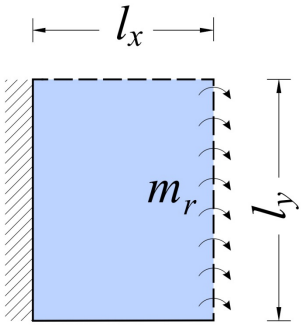
$K= p \cdot l_x$, $M=K/m$, $f_m=a \cdot p \cdot l_x^3/(E \cdot h^3)$



$\varepsilon=l_y:l_x=$	0.50	0.60	0.80	1.00	1.25	1.50	1.75	2.00
m_{xmin}	-0.90	-0.89	-0.89	-0.91	-0.91	-0.93	-0.95	-0.97
m_{xmax}	3.10	3.35	3.90	4.49	4.97	5.32	5.45	5.64
m_{ymin}	-3.95	-4.00	-4.22	-4.63	-5.45	-5.92	-6.33	-6.93
m_{ymax}	4.26	4.79	5.96	7.16	8.80	5.46	8.95	8.48
100a	851	548	268	150	160	166	169	170

4. Uniformly distributed moment m_R on line at $x=l_x$

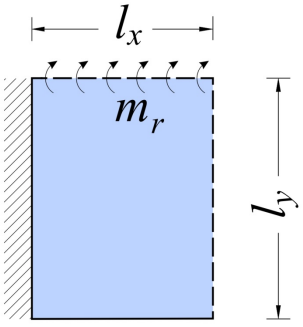
$K=m_R$, $M=K/m$, $f_m=a \cdot m_R \cdot l_x^2/(E \cdot h^3)$



$\varepsilon=:l_x=l_y$	0.50	0.60	0.80	1.00	1.25	1.50	1.75	2.00
m_{xmin}	-0.86	-0.86	-0.86	-0.86	-0.86	-0.87	-0.89	-0.89
m_{xmax}	1.13	1.13	1.13	1.13	1.09	1.08	1.08	1.10
m_{ymin}	-1.13	-1.13	-1.13	-1.13	-1.09	-1.08	-1.08	-1.10
$m_{yma}x$	1.13	1.13	1.13	1.13	1.09	1.08	1.08	1.10
100a	296	289	268	241	319	385	436	476

5. Uniformly distributed moment m_R on line at $y=l_y$

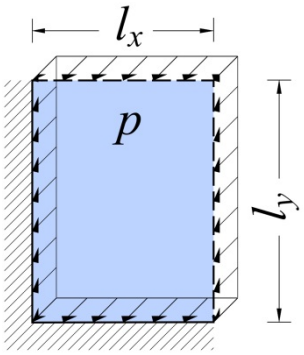
$K= m_R$, $M=K/m$, $f_m=a \cdot m_R \cdot l_x^2/(E \cdot h^3)$



$\varepsilon=l_y:l_x=$	0.50	0.60	0.80	1.00	1.25	1.50	1.75	2.00
m_{xmin}	-0.49	-0.49	-0.49	-0.49	-0.53	-0.57	-0.61	-0.66
m_{xmax}	3.54	3.54	3.54	3.54	3.57	3.65	3.86	4.07
m_{ymin}	-0.81	-0.81	-0.81	-0.81	-0.81	-0.83	-0.86	-0.88
m_{ymax}	8.67	8.67	8.67	8.67	5.35	4.95	4.44	4.30
100a	876	577	297	178	175	172	156	152

Table 59 Two-edge-supported slab, fixed along both edges

1. Uniform load p

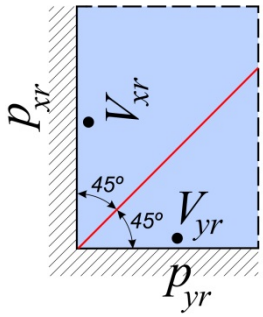


$K = p \cdot l_x \cdot l_y$, $M = K/m$, $f_m = a \cdot p \cdot l_x^4/(E \cdot h^3)$

$V_{xr} = \rho_{xr} \cdot K/l_y$, $V_{yr} = \rho_{xr} \cdot K/l_x$

$p_{xr} = u_{xr} \cdot K/l_y$, $p_{yr} = u_{yr}\ K/l_x$

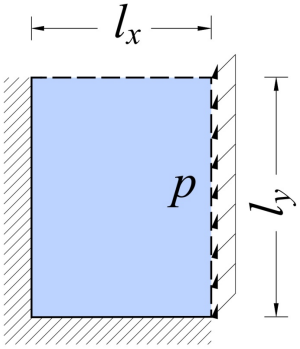
p_{ij} = equivalent uniform load



$\varepsilon = l_y : l_x =$	1.00	1.25	1.50	1.75	2.00
m_{xmin}	-3.23	-3.29	-3.51	-3.81	-4.18
m_{xmax}	14.5	17.7	21.1	25.7	28.4
m_{ymin}	-3.23	-3.41	-3.78	-4.27	-4.88
m_{ymax}	14.5	13.1	13.3	14.3	15.8
100a	45.5	67.4	87.6	103	117
ρ_{xr}	1.05	1.13	1.14	1.12	1.10
ρ_{yr}	1.05	0.89	0.75	0.62	0.52
u_{xr}	0.50	0.60	0.67	0.71	0.75
u_{yr}	0.50	0.40	0.33	0.29	0.25

2. Uniformly distributed force on line at $x = l_x$

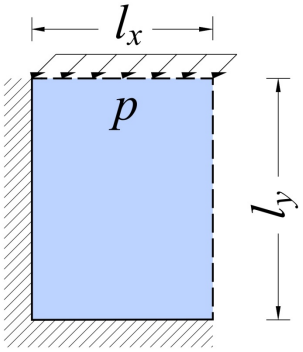
$K = p \cdot l_y$, $M = K/m$, $f_m = a \cdot p \cdot l_x^3/(E \cdot h^3)$



$\varepsilon = l_y : l_x =$	1.00	1.25	1.50	1.75	2.00
m_{xmin}	-2.22	-2.00	-2.01	-2.10	-2.26
m_{xmax}	7.72	7.71	7.24	7.86	8.20
m_{ymin}	-1.02	-1.13	-1.30	-1.50	-1.74
m_{ymax}	4.45	4.44	4.81	5.26	5.91
100a	118	176	228	270	305

3. Uniformly distributed force on line at $y=l_y$

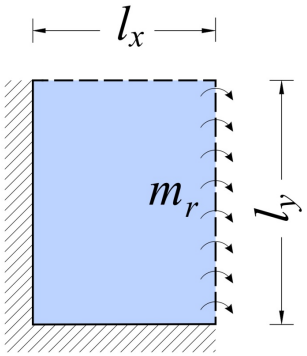
$K= p \cdot l_x$, $M=K/m$, $f_m=a \cdot p \cdot l_x^3/(E \cdot h^3)$



$\varepsilon=l_y:l_x=$	1.00	1.25	1.50	1.75	2.00
m_{xmin}	-1.02	-0.97	-0.95	-0.95	-0.97
m_{xmax}	4.45	4.66	5.17	5.39	5.66
m_{ymin}	-2.22	-2.80	-3.76	-5.16	-5.90
m_{ymax}	7.72	7.93	7.78	8.12	7.85
100a	118	142	156	163	167

4. Uniformly distributed moment m_R on line at $x=l_x$

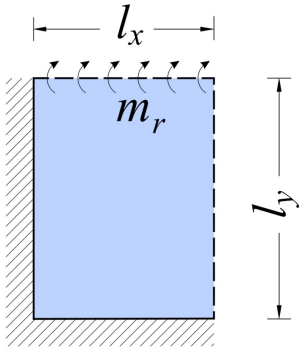
$K=m_R$, $M=K/m$, $f_m=a \cdot m_R \cdot l_x^2/(E \cdot h^3)$



$\varepsilon=l_y:l_x=$	1.00	1.25	1.50	1.75	2.00
m_{xmin}	-0.82	-0.81	-0.80	-0.78	-0.75
m_{xmax}	11.4	12.7	13.1	13.2	15.5
m_{ymin}	-0.50	-0.48	-0.49	-0.50	-0.53
m_{ymax}	3.53	3.31	3.10	2.96	2.86
100a	174	258	333	397	426

5. Uniformly distributed moment m_R on line at $y=l_y$

$K=m_R$, $M=K/m$, $f_m=a \cdot m_R \cdot l_x^2/(E \cdot h^3)$



$\varepsilon=l_y:l_x=$	1.00	1.25	1.50	1.75	2.00
m_{xmin}	-0.50	-0.53	-0.56	-0.61	-0.65
m_{xmax}	3.53	3.72	3.80	3.95	4.14
m_{ymin}	-0.82	-0.85	-0.85	-0.86	-0.88
m_{ymax}	9.08	6.35	5.76	4.75	4.49
100a	174	173	166	160	153