

L	3
*	90
E	2.00E+07
A	0.0015
AE/L	10000

Elemento 1-2
MATRIZ ELEMENTO EJES GLOBALES

	1	2
5	0	0
6	0	10000
1	0	0
2	0	-10000

L	5
*	36.8698976
E	2.00E+07
A	0.003
AE/L	12000

Elemento 1-3
MATRIZ ELEMENTO EJES GLOBALES

	5	6	3	4
5	7680	5760	-7680	-5760
6	5760	4320	-5760	-4320
3	-7680	-5760	7680	5760
4	-5760	-4320	5760	4320

L	4
*	0
E	2.00E+07
A	0.0015
AE/L	7500

Elemento 1-4
MATRIZ ELEMENTO EJES GLOBALES

	5	6	7	8
5	7500	0	-7500	0
6	0	0	0	0
7	-7500	0	7500	0
8	0	0	0	0

L	4
*	0
E	2.00E+07
A	0.0015
AE/L	7500

Elemento 2-3
MATRIZ ELEMENTO EJES GLOBALES

	1	2	3	4
1	7500	0	-7500	0
2	0	0	0	0
3	-7500	0	7500	0
4	0	0	0	0

L	5
*	323.130102
E	2.00E+07
A	0.003
AE/L	12000

Elemento 2-4
MATRIZ ELEMENTO EJES GLOBALES

	1	2	7	8
1	7680	-5760	-7680	5760
2	-5760	4320	5760	-4320
7	-7680	5760	7680	-5760
8	5760	-4320	-5760	4320

L	3
*	90
E	2.00E+07
A	0.0015
AE/L	10000

Elemento 4-3
MATRIZ ELEMENTO EJES GLOBALES

	7	8	3	4
7	0	0	0	0
8	0	10000	0	-10000
3	0	0	0	0
4	0	-10000	0	10000

ensamble

	F
X2	0
Y2	-20
X3	60
Y3	-40
	X1
	Y1
	X4
	Y4

	0	1	2	3	4	5	6	7	8
1	15180	-5760	-7500	0	0	0	0	-7680	5760
2	-5760	14320	0	0	0	-10000	5760	-4320	-4320
3	-7500	0	15180	5760	-7680	-5760	0	0	0
4	0	0	5760	14320	-5760	-4320	0	-10000	0
5	0	0	-7680	-5760	15180	5760	-7500	0	0
6	0	-10000	-5760	-4320	5760	14320	0	0	0
7	-7680	5760	0	0	-7500	0	15180	-5760	-5760
8	5760	-4320	0	-10000	0	0	-5760	14320	0

	U
	u2
	v2
	u3
	v3
	-0.002
	-0.005
	0
	0

FN	0
	-20
	60
	-40

kNA*Ua	0
	50
	44.16
	33.12

UN	0.0002087
v2	-0.0049722
u3	0.00339622
v3	-0.0064722

kNN inv	0.00011778	4.7377E-05	6.8675E-05	-2.762E-05
	4.7377E-05	8.8889E-05	2.7623E-05	-1.111E-05
	6.8675E-05	2.7623E-05	0.00011778	-4.738E-05
	-2.762E-05	-1.111E-05	-4.738E-05	8.8889E-05

FN-KNA Ua	0
	-70
	15.84
	-73.12

FA	-47.962963
Y1	-25
X4	-12.037037
Y4	85

KAN	0	0	-7680	-5760
	0	-10000	-5760	-4320
	-7680	5760	0	0
	5760	-4320	0	-10000

UN	-0.0002087
	-0.0049722
	0.00339622
	-0.0064722

KAA *Ua	-59.16
	-83.12
	15
	0

Elemento 1-2									
Fe=Ti*Fe							Fe=Ke*Ue		
-0.27778		6.1257E-17	1	0	0.00		0	5	-0.002
0.00000	-1	6.1257E-17	0	0	0.00	*	-0.2777778	6	-0.005
0.27778	0	0	6.1257E-17	1			0.0002087	1	-0.0002087
0.00000	0	0	-1	6.1257E-17			0.2777778	2	-0.0049722

Fe=Ke*Ue	0
-0.2777778	0
0	1
0.2777778	0

Ue	-0.002
-0.005	0
-0.0002087	0
-0.0049722	0

Elemento 1-3								
Fe=Ti*Fe					T^T		Fe=K*Ue	Ue
-41.20370		0.8	0.6	0	0.00		-32.962963	5 -0.002
0.00000		-0.6	0.8	0	0.00	*	-24.722222	6 -0.005
41.20370		0	0	0.8	0.6		32.962963	3 0.00339622
0.00000		0	0	-0.6	0.8		24.722222	4 -0.0064722

Fe=Ke*Ue	-32.962963
-24.722222	0
32.962963	0
24.7222222	0

Ue	-0.002
-0.005	0
0.00339622	0
-0.0064722	0

Elemento 1-4									
Fe=Ti*Fe					T^T		Fe=Ke*Ue		Ue
-15.00000		1	0	0	0.00		-15	5	-0.002
0.00000		0	1	0	0.00	*	0	6	-0.005
15.00000		0	0	1	0		15	7	0
0.00000		0	0	0	1		0	8	0

Fe=Ke*Ue	-15
0	0
15	0
0	0

Ue	-0.002
-0.005	0
0	0
0	0

Elemento 2-3									
Fe=Ti*Fe							Fe=Ke*Ue		Ue
-27.03704		1	0	0	0.00	-27.037037		1	-0.0002087
0.00000		0	1	0	0.00			2	-0.0049722
27.03704		0	0	1	0	27.037037		3	0.00339622
0.00000		0	0	0	1			4	-0.0064722

Fe=Ke*Ue	-27.037037
-20.277778	0
27.037037	0
0	0

Ue	-0.0002087
-0.0049722	0
0.00339622	0
-0.0064722	0

Elemento 2-4									
Fe=Ti*Fe					T^2		Fe=K*Ue		Ue
33.79630				0.8	-0.6	0	0.00	27.037037	1 -0.0002087
0.00000				0.6	0.8	0	0.00	-20.277778	2 -0.0049722
-33.79630				0	0	0.8	-0.6	-27.037037	7 0
0.00000				0	0	0.6	0.8	20.277778	8 0

Fe=Ke*Ue	27.037037
-20.277778	0
-27.037037	0
20.277778	0

Ue	-0.0002087
-0.0049722	0
0.00339622	0
-0.0064722	0

Elemento 4-3								
Fe=Ti*Fe							Fe=Ke*Ue	
64.72222		6.1257E-17	1	0	0.00		0	
0.00000	-1	6.1257E-17	0	0	0.00		7	0
-64.72222	0	0	6.1257E-17	1		64.72222	8	0
0.00000	0	0	-1	6.1257E-17		0	3	0.00339622
						-64.72222	4	-0.0064722

Fe=Ke*Ue	0
64.7222222	0
0	0
-64.7222222	0

Ue	0
0	0
0.00339622	0
-0.0064722	0