

"El documento original contiene páginas en mal estado"

ANEXO E-1

ESQUEMAS DE PLANTAS Y PORTICOS

"El contenido del Anexo E-1 no se encuentra disponible"

ANEXO E-2

PROPIEDADES DINAMICAS DEL EDIFICIO EN SU ESTADO ACTUAL

MODELO MAT. ENTRADA HOSP. "PRINCE LARA". PTO. CABELLO. JUNTAS ARTICULADAS

E I G E N S Y S T E M P A R A M E T E R S

NUMBER OF EQUATIONS	=	84
NUMBER OF MASSES	=	30
NUMBER OF VALUES TO BE EVALUATED	=	3
SIZE OF SUBSPACE	=	7

MODELO MAT. ENTRADA HOSP. "PRINCE LARA". PTO. CABELLO. JUNTAS ARTICULADAS

E I G E N V A L U E S A N D F R E Q U E N C I E S

MODE NUMBER	EIGENVALUE (RAD/SEC)**2	CIRCULAR FREQ (RAD/SEC)	FREQUENCY (CYCLES/SEC)	PERIOD (SEC)
1	.678195E+02	.823526E+01	1.310682	.762961
2	.513283E+03	.226557E+02	3.605774	.277333
3	.180913E+04	.425339E+02	6.769484	.147722

MODELO MAT. ENTRADA HOSP. "PRINCE LARA". PID. CABELLO. JUNTAS ARTICULADAS

B A S E F O R C E R E A C T I O N F A C T O R S

MODE	PERIOD	X	Y	Z	X	Y	Z
R	(sec)	DIRECTION	DIRECTION	DIRECTION	MOMENT	MOMENT	MOMENT
1	.763	.860E+01	-.153E+03	.132E-05	.488E+03	.275E+00	-.401E+04
2	.277	.177E+03	-.219E+00	.290E-06	.700E+00	.568E+03	-.107E+04
3	.148	-.835E-01	.907E+02	.755E-07	-.290E+03	-.267E+00	-.509E+02

MODELO MAT. ENTRADA HOSP. "PRINCE LARA". PTO. CABELLO. JUNTAS ARTICULADAS

PARTICIPATING MASS - (percent)

MODE	X-DIR	Y-DIR	Z-DIR	X-SUM	Y-SUM	Z-SUM
1	.000	74.044	.000	.000	74.044	.000
2	100.000	.000	.000	100.000	74.044	.000
3	.000	26.123	.000	100.000	100.167	.000

ANEXO E-3

**SOLICITACIONES EN LOS ELEMENTOS,
REACCIONES EN LA BASE Y
DESPLAZAMIENTOS**

MODELO MAT. ENTRADA HOSP. "PRINCE LARA". PTO. CABELLO. JUNTAS ARTICULA

FRAME ELEMENT FORCES 0,30 Sy + 1,00 Sy

ELT	LOAD	AXIAL	DIST	1-2 PLANE		1-3 PLANE		AXIAL
ID	COND	FORCE	END1	SHEAR	MOMENT	SHLAR	MOMENT	TORQ
1	DYN	.08						1188.11
			.1	47344.34	41416.27	8865.85	7965.27	
			.9	47344.34	5918.02	8865.85	1452.35	
2	DYN	.95						523.40
			.1	3347.03	7179.37	5342.10	10991.78	
			2.1	3347.03	418.38	5342.10	247.04	
3	DYN	5.64						523.40
			.1	3347.03	7179.38	9112.43	20292.21	
			2.1	3347.03	418.37	9112.43	1885.67	
4	DYN	3.66						.00
			.1	.02	.01	.20	.03	
			.4	.02	.00	.20	.02	
5	DYN	22.40						523.40
			.1	3347.03	7179.38	14371.40	29726.23	
			2.1	3347.03	418.37	14371.40	696.07	
6	DYN	11.50						.00
			.1	.01	.00	.04	.02	
			.8	.01	.00	.04	.01	
7	DYN	13.24						347.40
			.1	928.44	3059.21	4729.42	15936.73	
			3.3	928.44	116.05	4729.42	944.79	
8	DYN	8.21						.00
			.1	.00	.00	.01	.01	
			1.2	.00	.00	.01	.01	
9	DYN	3.94						228.04
			.1	253.22	1287.64	1691.61	8396.03	
			5.1	253.22	31.65	1691.61	21.55	
10	DYN	.49						.00
			.0	.07	.00	.00	.00	
			.3	.07	.02	.00	.00	
11	DYN	.04						706.18
			.1	.00	.00	.00	.00	
			8.5	.00	.00	.00	.00	
12	DYN	.09						207.17
			.1	.00	.00	.00	.00	
			8.3	.00	.00	.00	.00	
13	DYN	.38						207.21
			.1	.00	.00	.00	.00	
			7.1	.00	.00	.00	.00	

MODELO MAT. ENTRADA HOSP. "PRINCE LARA". PIO. CABELLO. JUNTAS ARTICULA

F R A M E E L E M E N T F O R C E S

11.1	LOAD	AXIAL DIST	1-2 PLANE		1-3 PLANE		AXIAL
10	COND	FORCE ENDT	SHEAR	MOMENT	SHEAR	MOMENT	TORQ
14							
	DYN	.95					207.22
		.1	.00	.00	.00	.00	
		7.7	.00	.00	.00	.00	
15							
	DYN	.30					207.25
		.1	.00	.00	.00	.00	
		7.0	.00	.00	.00	.00	
16							
	DYN	6.99					.00
		.1	.00	.00	.00	.00	
		1.1	.00	.00	.00	.00	
41							
	DYN	.00					747.52
		.1	.00	.00	.00	.00	
		7.1	.00	.00	.00	.00	
42							
	DYN	.00					354.18
		.1	.00	.00	.00	.00	
		7.2	.00	.00	.00	.00	
17							
	DYN	.28					1188.11
		.1	32134.74	28117.88	8869.38	7966.34	
		.9	32134.74	4038.19	8869.38	1448.57	
18							
	DYN	1.18					523.40
		.1	2271.78	4872.96	5478.50	11086.48	
		2.1	2271.78	283.97	5478.50	177.30	
19							
	DYN	.61					.00
		.0	.04	.00	.00	.00	
		.3	.04	.01	.00	.00	
20							
	DYN	.05					699.73
		.1	.00	.00	.00	.00	
		8.5	.00	.00	.00	.00	
21							
	DYN	.64					1188.11
		.1	32305.65	28267.42	8869.38	7966.34	
		.9	32305.65	4038.19	8869.38	1448.57	
22							
	DYN	1.64					523.40
		.1	2283.86	4898.88	5478.50	11086.48	
		2.1	2283.86	285.48	5478.50	177.30	
23							
	DYN	6.95					.00
		.0	.04	.00	.00	.00	
		.3	.04	.01	.00	.00	
24							
	DYN	.06					699.73
		.1	.00	.00	.00	.00	
		8.5	.00	.00	.00	.00	

MODELO MAT. ENTRADA HOSP. "PRINCE LARA". PTO. CABELLO. JUNTAS ARTICULA

FRAME ELEMENT FORCES

ELT	LOAD	AXIAL	DIST	1-2 PLANE		1-3 PLANE		AXIAL
ID	COND	FORCE	ENDI	SHEAR	MOMENT	SHEAR	MOMENT	TORQ
25								
	DYN	.44						1188.11
			.1	47518.48	41578.65	8865.89	7965.27	
			.9	47518.48	5939.78	8865.89	1452.41	
26								
	DYN	3.16						523.40
			.1	3359.34	7205.78	5338.07	10989.00	
			2.1	3359.34	419.92	5338.07	249.20	
27								
	DYN	7.38						523.40
			.1	3359.34	7205.79	9103.54	20286.02	
			2.1	3359.34	419.91	9103.54	1897.38	
28								
	DYN	4.78						.00
			.1	.02	.01	.20	.03	
			.4	.02	.00	.20	.02	
29								
	DYN	8.32						523.40
			.1	3359.34	7205.78	14136.28	29562.55	
			2.1	3359.34	419.91	14136.28	1007.70	
30								
	DYN	5.42						.00
			.1	.01	.00	.04	.02	
			.8	.01	.00	.04	.01	
31								
	DYN	3.78						248.56
			.1	331.18	1541.64	1745.60	8101.05	
			4.7	331.18	41.40	1745.60	194.07	
32								
	DYN	.03						228.04
			.1	254.16	1292.38	1686.16	8386.85	
			5.1	254.16	31.77	1686.16	25.48	
33								
	DYN	6.50						.00
			.0	.07	.00	.00	.00	
			.3	.07	.02	.00	.00	
34								
	DYN	.14						706.39
			.1	.00	.00	.00	.00	
			8.5	.00	.00	.00	.00	
35								
	DYN	.19						213.87
			.1	.00	.00	.00	.00	
			8.3	.00	.00	.00	.00	
36								
	DYN	.04						213.91
			.1	.00	.00	.00	.00	
			7.1	.00	.00	.00	.00	
37								
	DYN	.34						213.92
			.1	.00	.00	.00	.00	
			7.2	.00	.00	.00	.00	

MODELO MAT. ENTRADA HOSP. "PRINCE LARA". PTO. CABELLO. JUNTAS ARTICULAS

FRAME ELEMENT FORCES

ELT	LOAD	AXIAL	DIST	1-2 PLANE		1-3 PLANE		AXIAL
ID	COND	FORCE	END1	SHEAR	MOMENT	SHEAR	MOMENT	TORQ
38								
	DYN	.15						187.87
			.1	.00	.00	.00	.00	
			7.0	.00	.00	.00	.00	
39								
	DYN	.04						.00
			.1	.00	.00	.00	.00	
			1.1	.00	.00	.00	.00	
40								
	DYN	.00						760.34
			.1	.00	.00	.00	.00	
			7.1	.00	.00	.00	.00	

PROGRAM: SAP90/FILE: entrada.SOL
 MODELO MAT. ENTRADA HUSP. "PRINCE LARA". PTO. CABELLO. JUNTAS ARTICULADAS

4

R E A C T I O N S A N D A P P L I E D F O R C E S

DYNAMIC LOAD - FORCES "F" AND MOMENTS "M"

JOINT	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
1	.4734E+05	.8866E+04	.8498E-01	.9070E+04	.4734E+05	.1188E+04
2	.3347E+04	.5342E+04	.9552E+00	.1166E+05	.7598E+04	.5234E+03
3	.3347E+04	.9112E+04	.5641E+01	.2142E+05	.7598E+04	.5234E+03
4	.3347E+04	.1437E+05	.2240E+02	.3152E+05	.7598E+04	.5234E+03
5	.9284E+03	.4729E+04	.1724E+02	.1653E+05	.3175E+04	.3474E+03
6	253.2237	1691.6094	3.9295	8607.4851	1319.2940	228.0440
7	.3213E+05	.8869E+04	.2765E+00	.9072E+04	.3213E+05	.1188E+04
8	.2272E+04	.5478E+04	.1179E+01	.1177E+05	.5157E+04	.5234E+03
9	.3231E+05	.8869E+04	.6383E+00	.9072E+04	.3231E+05	.1188E+04
10	.2284E+04	.5478E+04	.1639E+01	.1177E+05	.5184E+04	.5234E+03
11	.4752E+05	.8866E+04	.4767E+00	.9070E+04	.4752E+05	.1188E+04
12	.3359E+04	.5338E+04	.3155E+01	.1166E+05	.7626E+04	.5234E+03
13	.3359E+04	.9104E+04	.7376E+01	.2142E+05	.7626E+04	.5234E+03
14	.3359E+04	.1414E+05	.8219E+01	.3133E+05	.7626E+04	.5234E+03
15	331.1785	1745.5992	3.7756	8319.2459	1587.0330	248.5584
16	254.1552	1686.1579	.0250	8597.6190	1324.1467	228.0440
17	3347.0517	9112.6288	1.9812	.0000	.0000	523.3960
18	.3347E+04	.1437E+05	.1090E+02	.0000E+00	.6651E-11	.5234E+03
19	928.4412	4729.4348	5.0286	.0000	.0000	347.4003
20	.4974	.0013	.0421	.0000	.0000	.0002
21	.4734E+05	.8866E+04	.3579E-01	.4608E-10	.7638E-11	.1068E+04
22	3347.1546	5342.1036	.9552	.0000	.0000	656.0779
23	.2758	.1988	1.6449	.0000	.0000	.0413
24	1.3343	.0411	11.5825	.0000	.0000	.0850
25	1.2465	.0148	8.2885	.0000	.0000	.2562
26	259.7986	1691.6103	4.3078	.0000	.0000	215.6440
27	6.9790	.0009	.3863	.0000	.0000	.0004
28	.6048	.0013	.0718	.0000	.0000	.0002
29	.3213E+05	.8869E+04	.1964E+00	.4064E-10	.4155E-11	.1069E+04
30	2271.8245	5478.4962	1.1869	.0000	.0000	642.6654
31	6.9414	.0013	.3124	.0000	.0000	.0002
32	.3231E+05	.8869E+04	.3151E+00	.4064E-10	.9159E-11	.1069E+04
33	2283.8020	5478.4962	1.6501	.0000	.0000	642.6654
34	3359.3631	9103.7429	2.5927	.0000	.0000	523.3960
35	.3359E+04	.1414E+05	.2899E+01	.1010E-10	.0000E+00	.5234E+03
36	6.4904	.0013	.2677	.0000	.0000	.0002
37	.4753E+05	.8866E+04	.1455E+00	.6186E-10	.2221E-10	.1068E+04
38	3359.3902	5338.0744	3.1899	.0000	.0000	656.5005
39	.1645	.1993	4.7923	.0000	.0000	.0428
40	.3810	.0413	5.4423	.0000	.0000	.0858
41	331.6576	1745.5992	3.8045	.0000	.0000	247.3094
42	253.9747	1686.1588	.0127	.0000	.0000	216.7715
43	.0425	.0009	.0036	.0000	.0000	.0004
100	.0000	.0000	.0000	.0000	.0000	.0000

PROGRAM:SAF90/FILE:ENTRADA.SOL
 MODELO MAT. ENTRADA HOSP. "PRINCE LARA". PTO. CABELLO. JUNTAS ARTICULA

J O I N T D I S P L A C E M E N T S

DYNAMIC LOAD - DISPLACEMENTS "U" AND ROTATIONS "R"

JOINT	U(X)	U(Y)	U(Z)	R(X)	R(Y)	R(Z)
1	.000000	.000000	.000000	.000000	.000000	.000000
2	.000000	.000000	.000000	.000000	.000000	.000000
3	.000000	.000000	.000000	.000000	.000000	.000000
4	.000000	.000000	.000000	.000000	.000000	.000000
5	.000000	.000000	.000000	.000000	.000000	.000000
6	.000000	.000000	.000000	.000000	.000000	.000000
7	.000000	.000000	.000000	.000000	.000000	.000000
8	.000000	.000000	.000000	.000000	.000000	.000000
9	.000000	.000000	.000000	.000000	.000000	.000000
10	.000000	.000000	.000000	.000000	.000000	.000000
11	.000000	.000000	.000000	.000000	.000000	.000000
12	.000000	.000000	.000000	.000000	.000000	.000000
13	.000000	.000000	.000000	.000000	.000000	.000000
14	.000000	.000000	.000000	.000000	.000000	.000000
15	.000000	.000000	.000000	.000000	.000000	.000000
16	.000000	.000000	.000000	.000000	.000000	.000000
17	.013494	.038814	.000000	.027185	.009313	.002218
18	.013494	.054878	.000000	.037291	.009313	.002218
19	.013494	.071062	.000000	.032473	.006108	.002218
20	.013494	.002297	.000000	.004242	.010144	.002218
21	.013494	.002626	.000000	.004242	.021547	.002218
22	.013494	.020239	.000000	.013722	.009313	.002218
23	.013494	.038814	.000000	.016932	.005343	.002218
24	.013494	.054878	.000000	.019717	.002545	.002218
25	.013494	.071062	.000000	.022528	.001046	.002218
26	.013494	.086916	.000000	.025288	.003971	.002218
27	.013494	.089312	.000001	.025288	.000518	.002218
28	.009159	.002297	.000000	.004242	.006885	.002218
29	.009159	.002626	.000000	.004242	.014625	.002218
30	.009159	.020239	.000000	.013617	.006321	.002218
31	.009208	.002297	.000000	.004242	.006921	.002218
32	.009208	.002626	.000000	.004242	.014703	.002218
33	.009208	.020239	.000000	.013617	.006355	.002218
34	.013544	.038814	.000000	.027191	.009347	.002218
35	.013544	.054878	.000000	.037472	.009347	.002218
36	.013544	.002297	.000000	.004242	.010180	.002218
37	.013544	.002626	.000000	.004242	.021626	.002218
38	.013544	.020239	.000000	.013725	.009347	.002218
39	.013544	.038814	.000000	.017031	.005363	.002218
40	.013544	.054878	.000000	.019902	.002568	.002218
41	.013544	.071062	.000000	.022801	.004352	.002218
42	.013544	.086916	.000000	.025314	.003985	.002218
43	.013544	.089312	.000000	.025314	.000521	.002218
100	.002365	.044185	.000000	.000000	.000000	.002218

MODELO MAT. ENTRADA HOSP. "PRINCE LARA". PTO. CADELLO. JUNTAS ARTICULA

FRAME ELEMENT FORCES

5,005x+0,305y

ELI	LOAD	AXIAL	DIST	1-2 PLANE		1-3 PLANE		AXIAL
ID	COND	FORCE	ENDI	SHEAR	MOMENT	SHEAR	MOMENT	TORQ
1								
	DYN	.03						156.43
			.1	30978.39	27106.08	2659.88	2389.68	
			.9	30978.39	3872.28	2659.88	435.71	
2								
	DYN	.29						157.02
			.1	2190.03	4697.61	1602.63	2297.54	
			2.1	2190.03	273.75	1602.63	74.11	
3								
	DYN	1.69						157.02
			.1	2190.03	4697.62	2733.73	6087.67	
			2.1	2190.03	273.75	2733.73	565.69	
4								
	DYN	1.10						.00
			.1	.01	.00	.06	.01	
			.4	.01	.00	.06	.01	
5								
	DYN	6.72						157.02
			.1	2190.03	4697.62	4311.43	8917.89	
			2.1	2190.03	273.75	4311.43	208.82	
6								
	DYN	3.45						.00
			.1	.00	.00	.01	.01	
			.8	.00	.00	.01	.00	
7								
	DYN	3.97						104.22
			.1	607.50	2001.70	1418.83	4781.03	
			3.3	607.50	75.94	1418.83	283.44	
8								
	DYN	2.46						.00
			.1	.00	.00	.00	.00	
			1.2	.00	.00	.00	.00	
9								
	DYN	1.18						68.41
			.1	165.69	842.53	507.48	2518.82	
			5.1	165.69	20.71	507.48	6.46	
10								
	DYN	.76						.00
			.0	.04	.00	.00	.00	
			.3	.04	.01	.00	.00	
11								
	DYN	.01						211.85
			.1	.00	.00	.00	.00	
			8.5	.00	.00	.00	.00	
12								
	DYN	.03						62.15
			.1	.00	.00	.00	.00	
			8.3	.00	.00	.00	.00	
13								
	DYN	.11						62.15
			.1	.00	.00	.00	.00	
			7.1	.00	.00	.00	.00	

MODELO MAT. ENTRADA HOSP. "PRINCE LARA". P10. CABELLO. JUNTAS ARTICULA

F R A M E E L E M E N T F O R C E S

ELI	LOAD	AXIAL	DIST	1-2 PLANE		1-3 PLANE		AXIAL
ID	COND	FORCE	END1	SHEAR	MOMENT	SHEAR	MOMENT	TORQ
14	DYN	.28						62.17
			.1	.00	.00	.00	.00	
			7.2	.00	.00	.00	.00	
15	DYN	.09						62.17
			.1	.00	.00	.00	.00	
			7.0	.00	.00	.00	.00	
16	DYN	2.10						.00
			.1	.00	.00	.00	.00	
			1.1	.00	.00	.00	.00	
41	DYN	.66						224.26
			.1	.00	.00	.00	.00	
			7.1	.00	.00	.00	.00	
42	DYN	.00						106.25
			.1	.00	.00	.00	.00	
			7.2	.00	.00	.00	.00	
17	DYN	.08						356.43
			.1	29175.28	25528.75	2660.94	2390.00	
			.9	29175.28	2646.89	2660.94	434.58	
18	DYN	.35						157.02
			.1	2062.56	4424.19	1643.55	3325.95	
			2.1	2062.56	257.82	1643.55	53.19	
19	DYN	.77						.00
			.0	.04	.00	.00	.00	
			.3	.04	.01	.00	.00	
20	DYN	.01						209.92
			.1	.00	.00	.00	.00	
			8.5	.00	.00	.00	.00	
21	DYN	.19						356.43
			.1	29215.05	25563.15	2660.94	2390.00	
			.9	29215.05	2651.86	2660.94	434.58	
22	DYN	.49						157.02
			.1	2065.37	4430.22	1643.55	3325.95	
			2.1	2065.37	258.17	1643.55	53.19	
23	DYN	2.22						.00
			.0	.04	.00	.00	.00	
			.3	.04	.01	.00	.00	
24	DYN	.02						209.92
			.1	.00	.00	.00	.00	
			8.5	.00	.00	.00	.00	

MODELO MAT. ENTRADA HOSP. "PRINCE LARA", PTO. CABELLO, JUNTAS ARTICULA

FRAME ELEMENT FORCES

ELT LOAD	AXIAL DIST	1-2 PLANE		1-3 PLANE		AXIAL
ID COND	FORCE END1	SHEAR	MOMENT	SHEAR	MOMENT	TORQ
25	DYN	.13				356.43
		.1	31034.56	27155.23	2659.89	2389.68
		.9	31034.56	3879.30	2659.89	435.73
26	DYN	.95				157.02
		.1	2194.00	4706.13	1601.43	2296.71
		2.1	2194.00	274.25	1601.43	74.76
27	DYN	2.21				157.02
		.1	2194.01	4706.13	2731.07	6085.82
		2.1	2194.01	274.24	2731.07	569.21
28	DYN	1.44				.00
		.1	.01	.00	.06	.01
		.4	.01	.00	.06	.01
29	DYN	2.50				157.02
		.1	2194.00	4706.13	4240.89	8868.78
		2.1	2194.00	274.25	4240.89	302.31
30	DYN	1.63				.00
		.1	.00	.00	.01	.01
		.8	.00	.00	.01	.00
31	DYN	1.13				74.57
		.1	216.29	1006.85	523.68	2430.32
		4.7	216.29	27.04	523.68	58.22
32	DYN	.01				68.41
		.1	165.99	844.06	505.85	2516.06
		5.1	165.99	20.75	505.85	7.64
33	DYN	2.09				.00
		.0	.04	.00	.00	.00
		.3	.04	.01	.00	.00
34	DYN	.04				211.92
		.1	.00	.00	.00	.00
		8.5	.00	.00	.00	.00
35	DYN	.06				54.16
		.1	.00	.00	.00	.00
		8.3	.00	.00	.00	.00
36	DYN	.01				54.17
		.1	.00	.00	.00	.00
		7.1	.00	.00	.00	.00
37	DYN	.10				54.18
		.1	.00	.00	.00	.00
		7.2	.00	.00	.00	.00

MODELO MAT. ENTRADA HOSP. "PRINCE LARA". PTO. CABELLO. JUNTAS ARTICULA

FRAME ELEMENT FORCES

ELT LOAD	AXIAL DIST	1-2 PLANE		1-2 PLANE		AXIAL
ID COND	FORCE ENDI	SHEAR	MOMENT	SHEAR	MOMENT	TORQ
38						
DYN	.00					56.36
	.1	.00	.00	.00	.00	
	7.0	.00	.00	.00	.00	
39						
DYN	.02					.00
	.1	.00	.00	.00	.00	
	1.1	.00	.00	.00	.00	
40						
DYN	.00					228.10
	.1	.00	.00	.00	.00	
	7.1	.00	.00	.00	.00	

JOINT DISPLACEMENTS

DYNAMIC LOAD - DISPLACEMENTS "U" AND ROTATIONS "R"

JOINT	U(X)	U(Y)	U(Z)	R(X)	R(Y)	R(Z)
1	.000000	.000000	.000000	.000000	.000000	.000000
2	.000000	.000000	.000000	.000000	.000000	.000000
3	.000000	.000000	.000000	.000000	.000000	.000000
4	.000000	.000000	.000000	.000000	.000000	.000000
5	.000000	.000000	.000000	.000000	.000000	.000000
6	.000000	.000000	.000000	.000000	.000000	.000000
7	.000000	.000000	.000000	.000000	.000000	.000000
8	.000000	.000000	.000000	.000000	.000000	.000000
9	.000000	.000000	.000000	.000000	.000000	.000000
10	.000000	.000000	.000000	.000000	.000000	.000000
11	.000000	.000000	.000000	.000000	.000000	.000000
12	.000000	.000000	.000000	.000000	.000000	.000000
13	.000000	.000000	.000000	.000000	.000000	.000000
14	.000000	.000000	.000000	.000000	.000000	.000000
15	.000000	.000000	.000000	.000000	.000000	.000000
16	.000000	.000000	.000000	.000000	.000000	.000000
17	.008829	.011644	.000000	.008155	.006094	.000666
18	.008829	.016463	.000000	.011187	.006094	.000666
19	.008829	.021319	.000000	.009742	.003997	.000666
20	.008829	.000689	.000000	.001273	.006637	.000666
21	.008829	.000788	.000000	.001273	.014099	.000666
22	.008829	.006072	.000000	.004117	.006094	.000666
23	.008829	.011644	.000000	.005080	.003496	.000666
24	.008829	.016463	.000000	.005915	.001665	.000666
25	.008829	.021319	.000000	.006759	.000684	.000666
26	.008829	.026075	.000000	.007586	.002598	.000666
27	.008829	.026794	.000000	.007586	.000339	.000666
28	.008315	.000689	.000000	.001273	.006251	.000666
29	.008315	.000788	.000000	.001273	.013278	.000666
30	.008315	.006072	.000000	.004085	.005739	.000666
31	.008327	.000689	.000000	.001273	.006259	.000666
32	.008327	.000788	.000000	.001273	.013296	.000666
33	.008327	.006072	.000000	.004085	.005747	.000666
34	.008845	.011644	.000000	.008157	.006105	.000666
35	.008845	.016463	.000000	.011242	.006105	.000666
36	.008845	.000689	.000000	.001273	.006649	.000666
37	.008845	.000788	.000000	.001273	.014124	.000666
38	.008845	.006072	.000000	.004117	.006105	.000666
39	.008845	.011644	.000000	.005109	.003502	.000666
40	.008845	.016463	.000000	.005971	.001677	.000666
41	.008845	.021319	.000000	.006840	.002842	.000666
42	.008845	.026075	.000000	.007594	.002603	.000666
43	.008845	.026794	.000000	.007594	.000340	.000666
100	.007884	.013256	.000000	.000000	.000000	.000666

MODELO MAT. ENTRADA HUSP. "PRINCE LARA". PID. CABELLO. JUNTAY ARTICULA

(2/2)

REACTIONS AND APPLIED FORCES

DYNAMIC LOAD - FORCES "F" AND MOMENTS "M"

JOINT	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
1	.3098E+05	.2660E+04	.2550E-01	.2721E+04	.3098E+05	.3564E+03
2	2190.0302	1802.6340	.2866	3497.8525	4971.3680	157.0192
3	2190.0340	2733.7344	1.6931	6429.7902	4971.3712	157.0192
4	2190.0323	4311.4289	6.7210	9456.8155	4971.3698	157.0192
5	607.4975	1418.8292	3.9730	4958.3838	2077.6401	104.2204
6	165.6896	507.4840	1.1819	2582.2514	863.2416	68.4134
7	.2918E+05	.2661E+04	.8295E-01	.2722E+04	.2918E+05	.3564E+03
8	2062.5582	1643.5519	.3536	3531.3687	4682.0070	157.0192
9	.2922E+05	.2661E+04	.1915E+00	.2722E+04	.2922E+05	.3564E+03
10	2065.3699	1643.5519	.4918	3531.3687	4688.3894	157.0192
11	.3103E+05	.2660E+04	.1310E+00	.2721E+04	.3103E+05	.3564E+03
12	2194.0012	1601.4252	.9466	3496.8687	4980.3824	157.0192
13	2194.0051	2711.0684	2.2130	6427.7014	4980.3855	157.0192
14	2194.0032	4240.8919	2.4958	9398.8958	4980.3840	157.0192
15	216.2944	523.6809	1.1327	2498.7792	1033.8869	74.5677
16	165.9900	505.8485	.0075	2579.2916	864.8069	68.4134
17	2190.0460	2733.7940	.5944	.0000	.0000	157.0192
18	2190.0357	4311.4412	3.2698	.0000	.0000	157.0192
19	607.4985	1418.8336	1.5086	.0000	.0000	104.2204
20	.7647	.0004	.0126	.0000	.0000	.0001
21	.3098E+05	.2660E+04	.1074E-01	.1382E-10	.9900E-11	.3205E+03
22	2190.0474	1802.6340	.2866	.0000	.0000	196.8240
23	.0834	.0596	1.0935	.0000	.0000	.0124
24	.4003	.0123	3.4748	.0000	.0000	.0249
25	.3740	.0044	2.4866	.0000	.0000	.0769
26	166.6284	507.4843	1.2923	.0000	.0000	64.6934
27	2.0939	.0003	.1159	.0000	.0000	.0001
28	.7696	.0004	.0216	.0000	.0000	.0001
29	.2918E+05	.2661E+04	.5892E-01	.1219E-10	.9569E-11	.3208E+03
30	2062.5628	1643.5519	.3561	.0000	.0000	192.8002
31	2.2138	.0004	.0937	.0000	.0000	.0001
32	.2922E+05	.2661E+04	.9454E-01	.1219E-10	.1447E-10	.3208E+03
33	2065.3640	1643.5519	.4950	.0000	.0000	192.8002
34	2194.0171	2731.1282	.7779	.0000	.0000	157.0192
35	2194.0066	4240.9043	.8696	.0000	.0000	157.0192
36	2.0850	.0004	.0803	.0000	.0000	.0001
37	.3104E+05	.2660E+04	.4366E-01	.1856E-10	.1445E-10	.3205E+03
38	2194.0088	1601.4252	.9570	.0000	.0000	196.9508
39	.0506	.0598	1.4378	.0000	.0000	.0128
40	.1144	.0124	1.6328	.0000	.0000	.0257
41	216.3609	523.6809	1.1413	.0000	.0000	74.1930
42	165.9788	505.8488	.0038	.0000	.0000	65.0316
43	.0199	.0003	.0011	.0000	.0000	.0001
100	.0000	.0000	.0000	.0000	.0000	.0000

ANEXO E-4

PROPIEDADES DINAMICAS DE LA ESTRUCTURA REFORZADA

MOD MAT. ENT. PRINC. HOSP. "PRINCE LARA". PTO. CABELLO// 1.00SX+0.30SY

E I G E N S Y S T E M P A R A M E T E R S

NUMBER OF EQUATIONS	=	84
NUMBER OF MASSES	=	30
NUMBER OF VALUES TO BE EVALUATED	=	3
SIZE OF SUBSPACE	=	7

PROGRAM:SAP90/FILE:ENTRADAR.EIG

MOD MAT. ENT. PRINC. HOSF. "PRINCE LARA". PTO. CABELLO// 1.00SX+0.30SY

E I G E N V A L U E S A N D F R E Q U E N C I E S

MODE NUMBER	EIGENVALUE (RAD/SEC)**2	CIRCULAR FREQ (RAD/SEC)	FREQUENCY (CYCLES/SEC)	PERIOD (SEC)
1	.494817E+03	.222445E+02	3.540319	.282460
2	.844200E+03	.290551E+02	4.624266	.216251
3	.201207E+04	.448561E+02	7.139068	.140074

MOD MAT. ENT. PRINC. HOSP. "PRINCE LARA". PTO. CABELLO// 1.00SX+0.30SY

BASE FORCE REACTION FACTORS

MODE	PERIOD	X	Y	Z	X	Y	Z
n	(sec)	DIRECTION	DIRECTION	DIRECTION	MOMENT	MOMENT	MOMENT
1	.282	.129E+01	-.163E+03	.205E-03	.520E+03	.414E+01	-.405E+04
2	.216	.180E+03	.151E+01	.129E-01	-.476E+01	.578E+03	-.105E+04
3	.140	.804E+00	-.782E+02	-.174E-03	.250E+03	.259E+01	.374E+03

MOD MAT. ENT. PRINC. HOSP. "PRINCE LAF3". PTO. CABELLO// 1.00SX+0.30SY

P A R T I C I P A T I N G M A S S - (percent)

MODE	X-DIR	Y-DIR	Z-DIR	X-SUM	Y-SUM	Z-SUM
1	.005	81.205	.000	.005	81.205	.000
2	99.978	.007	.000	99.984	81.212	.000
3	.002	18.788	.000	99.986	100.000	.000

ANEXO E-5

**SOLICITACIONES EN LOS ELEMENTOS,
REACCIONES EN LA BASE Y
DESPLAZAMIENTOS**

PROGRAM:SAF90/FILE:ENTRADAR.F3H
MOD MAT. FNT. PRINC. HUSP. "PRINCE LARA". PTO. CABELLO// 1.00SX+0.30SY

FRAME ELEMENT FORCES

ELT	LOAD	AXIAL DIST	1-2 PLANE	1-2 PLANE	AXIAL
ID	COND	FORCE END1	SHEAR	MOMENT	TORQ
1	DYN	626.00			45.38
		.1	23805.13	16499.69	2437.62
		.9	23805.13	1154.16	2035.93
2	DYN	502.95			19.99
		.1	3202.83	3959.66	331.73
		2.1	3202.83	2510.05	645.41
3	DYN	45.54			19.99
		.1	4865.05	5116.72	1803.45
		2.1	4865.05	4710.68	1903.41
4	DYN	184.25			.00
		.1	9592.15	3656.55	4053.21
		.4	9592.15	1258.52	1482.75
5	DYN	2.34			19.99
		.1	4426.61	4811.53	2046.02
		2.1	4426.61	4130.22	2283.95
6	DYN	14.88			.00
		.1	4441.25	3010.66	2250.90
		.8	4441.25	9.39	1792.15
7	DYN	125.60			
		.1	2522.06	4360.44	12875.27
		3.2	2522.06	3634.50	22541.03
8	DYN	275.00			
		.1	2546.77	3102.09	14560.01
		1.2	2546.77	275.17	18069.56
9	DYN	207.19			
		.1	1473.71	5856.89	14560.01
		5.1	1473.71	1452.71	1907.95
10	DYN	55170.96			19.30
		.0	2822.30	.00	1469.55
		.3	2822.30	749.36	6868.21
11	DYN	35.55			34.47
		.1	634.49	3148.35	21.63
		8.5	634.49	2136.06	95.05
12	DYN	6.68			54.33
		.1	116.63	680.46	21.63
		8.3	116.63	271.78	85.89
13	DYN	1.44			16.14
		.1	67.50	218.43	3.03
		7.1	67.50	254.94	17.51
					7.27
					10.34

MOD MAT. ENT. PRINC. HOSP. "PRINCE LARA". PTO. CABELLO// 1.00SX+0.70SY

FRAME ELEMENT FORCES

ELT	LOAD	AXIAL	DISP	1-2 PLANE		1-3 PLANE		AXIAL
ID	COND	FORCE	END1	SHEAR	MOMENT	SHEAR	MOMENT	TORQ
14	DYN	.48						2.53
			.1	82.33	290.87	3.59	12.89	
			7.2	82.33	290.62	3.59	12.46	
15	DYN	13.07						
			.1	189.18	234.09	87.27	129.64	
			7.0	189.18	1073.66	87.27	473.71	
16	DYN	9127.02						14.79
			.1	498.88	477.26	559.38	269.00	
			1.1	498.88	.00	559.38	266.14	
41	DYN	.00						24.62
			.1	138.75	445.89	.00	.00	
			7.1	138.75	525.32	.00	.00	
42	DYN	.00						6.86
			.1	151.29	556.15	.00	.00	
			7.2	151.29	510.42	.00	.00	
17	DYN	644.26						45.38
			.1	23833.64	16477.71	2435.67	2035.44	
			.9	23833.64	1397.52	2435.67	209.67	
18	DYN	637.70						19.99
			.1	2800.30	3674.71	295.05	619.83	
			2.1	2800.30	1981.89	295.05	37.00	
19	DYN	54932.94						19.30
			.0	2810.11	.00	2851.94	376.37	
			.3	2810.11	746.12	2851.94	380.85	
20	DYN	42.07						34.26
			.1	654.10	3197.58	21.97	95.98	
			8.5	654.10	2250.17	21.97	87.80	
21	DYN	645.17						45.38
			.1	23867.43	16501.07	2435.67	2035.44	
			.9	23867.43	1399.50	2435.67	209.67	
22	DYN	638.60						19.99
			.1	2804.27	3679.92	295.05	619.83	
			2.1	2804.27	1984.70	295.05	37.00	
23	DYN	55010.80						19.30
			.0	2814.10	.00	2851.94	376.37	
			.3	2814.10	747.18	2851.94	380.85	
24	DYN	42.13						34.26
			.1	655.03	3202.11	21.97	95.98	
			8.5	655.03	2253.36	21.97	87.80	

MOD MAT. ENT. PRINC. HOSP. "PRINCE LARA". PTO. CABELLO// 1.00SX+0.30SY

FRAME ELEMENT FORCES

ELT	LOAD	AXIAL DIST	1-2 PLANE	1-3 PLANE	AXIAL
ID	COND	FORCE END1	SHEAR	MOMENT	TORQ
25	DYN	627.38			45.38
		.1	23855.38	16534.55	2437.62
		.9	23855.38	1356.98	2035.93
26	DYN	503.77			19.99
		.1	3209.94	3968.27	331.73
		2.1	3209.94	2515.81	645.41
27	DYN	44.33			19.99
		.1	4879.48	5130.43	1803.58
		2.1	4879.48	4726.12	1903.50
28	DYN	194.35			.00
		.1	9614.31	3643.33	4055.15
		.4	9614.31	1239.75	1482.15
29	DYN	58.06			19.99
		.1	4293.86	4722.78	2055.84
		2.1	4293.86	3950.82	2290.78
30	DYN	92.07			.00
		.1	4600.81	3315.42	2055.84
		.8	4600.81	186.86	1862.01
31	DYN	406.47			
		.1	761.55	1981.82	2365.37
		4.7	761.55	1468.01	1799.27
32	DYN	426.01			
		.1	1626.27	6122.27	2365.37
		5.1	1626.27	1944.01	190.85
33	DYN	55287.66			19.30
		.0	2828.28	.00	2851.30
		.3	2828.28	750.94	376.29
34	DYN	35.61			34.48
		.1	635.81	3154.95	2851.30
		8.5	635.81	2140.47	380.77
35	DYN	6.68			54.32
		.1	117.10	682.47	21.63
		8.3	117.10	273.64	95.05
36	DYN	1.24			14.78
		.1	77.14	240.67	21.63
		7.1	77.14	300.29	85.89
37	DYN	1.16			90.06
		.1	15.14	80.20	3.86
		7.2	15.14	187.12	5.18

MOD MAT. INT. PRINC. HOSP. "PRINCE LARA". PTO. CABELLO// 1.00SX+0.30SY

F R A M E E L E M E N T F O R C E S

ELT	LOAD	AXIAL DIST	1-2 PLANE		1-3 PLANE		AXIAL
ID	COND	FORCE END1	SHEAR	MOMENT	SHEAR	MOMENT	TORQ
38							
	DYN	30.40					
		.1	420.15	1321.67	232.48	793.40	
		7.0	420.15	1582.82	232.48	813.73	
39							
	DYN	8658.83					14.76
		.1	473.30	452.79	558.53	268.59	
		1.1	473.30	.00	558.53	265.73	
40							
	DYN	.00					24.07
		.1	150.07	472.18	.00	.00	
		7.1	150.07	578.28	.00	.00	
43							
	DYN	.00					
		.3	29.09	68.02	.00	.00	
		11.7	29.09	260.95	.00	.00	
44							
	DYN	.00					
		.3	90.28	510.66	.00	.00	
		11.7	90.28	510.41	.00	.00	

MOD MAT. ENT. PRINC. HOSP. "FRINCE LARA". PTO. CABELLO// 1.00SX+0.30SY

R E A C T I O N S A N D A P P L I E D F O R C E S

DYNAMIC LOAD - FORCES "F" AND MOMENTS "M"

JOINT	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
1	.2301E+05	.2438E+04	.6261E+03	.2341E+04	.1948E+05	.4538E+02
2	3202.8307	771.7314	502.9519	686.8492	4360.0170	19.9904
3	4865.0507	1803.4457	45.5423	2128.8411	5724.8563	19.9904
4	4426.6105	2046.0206	2.3414	2539.7035	5364.8556	19.9904
5	.2522E+04	.1288E+05	.1256E+03	.2415E+05	.4676E+04	.0000E+00
6	1477.7102	1469.5518	207.1873	7051.9037	6041.1018	.0000
7	.2383E+05	.2436E+04	.6443E+03	.2340E+04	.1946E+05	.4538E+02
8	2800.2969	295.0469	617.6956	656.6774	4024.7440	19.9904
9	.2387E+05	.2436E+04	.6452E+03	.2340E+04	.1948E+05	.4538E+02
10	2804.2663	295.0469	638.5994	656.6774	4030.4491	19.9904
11	.2386E+05	.2438E+04	.6274E+03	.2341E+04	.1952E+05	.4538E+02
12	3209.9414	771.7255	503.7721	686.8444	4369.5134	19.9904
13	4879.4799	1803.5780	44.3259	2128.9497	5740.3614	19.9904
14	4293.8623	2055.8380	58.0554	2547.7644	5259.5142	19.9904
15	761.5520	1493.0728	406.4746	6725.3135	2077.0127	.0000
16	1626.2662	1475.8026	426.0127	7063.2677	6325.5553	.0000
17	.1446E+05	.5857E+04	.5105E-01	.4768E-11	.6921E-11	.1999E+02
18	8867.8580	4296.9164	.0091	.0000	.0000	19.9904
19	.5069E+04	.2744E+05	.1883E-01	.7582E-11	.0000E+00	.7674E-09
20	.5524E+05	.2851E+04	.6982E+01	.0000E+00	.1163E-10	.3768E+03
21	.7890E+05	.5268E+04	.2649E+00	.0000E+00	.7205E-11	.8071E+03
22	3747.5715	354.6835	.9347	.0000	.0000	65.2787
23	9597.8413	4058.6515	.1404	.0000	.0000	3.9372
24	4441.1316	2251.9712	.0150	.0000	.0000	22.8577
25	.2517E+04	.1447E+05	.6577E-01	.1063E-10	.3270E-11	.1273E+03
26	.1059E+05	.1942E+04	.8591E-01	.2195E-11	.3411E-11	.8213E+03
27	9140.6418	559.3796	8.1774	.0000	.0000	266.5511
28	.5500E+05	.2852E+04	.6959E+01	.0000E+00	.1389E-10	.3769E+03
29	.7868E+05	.5266E+04	.2733E+00	.0000E+00	.5468E-10	.8084E+03
30	2954.5804	315.2920	.6628	.0000	.0000	79.5289
31	.5508E+05	.2852E+04	.6965E+01	.0000E+00	.2202E-11	.3769E+03
32	.7880E+05	.5266E+04	.2734E+00	.0000E+00	.4536E-10	.8084E+03
33	2958.7684	315.2920	.6633	.0000	.0000	79.5289
34	.1449E+05	.5859E+04	.1500E+00	.1749E-11	.3139E-11	.1999E+02
35	8894.6769	4421.2111	.1773	.0000	.0000	19.9904
36	.5536E+05	.2851E+04	.6991E+01	.0000E+00	.3079E-11	.3768E+03
37	.7907E+05	.5268E+04	.2655E+00	.2489E-11	.2683E-10	.8071E+03
38	3355.0046	354.6784	.9369	.0000	.0000	65.2773
39	9620.3997	4060.4780	.2950	.0000	.0000	4.0880
40	4595.2803	2359.1312	.3116	.0000	.0000	2.0141
41	817.3252	1721.6662	.2057	.0000	.0000	838.1847
42	.1024E+05	.1802E+04	.1851E+00	.4263E-11	.3854E-11	.1178E+04
43	8671.7554	558.5260	7.7550	.0000	.0000	266.1443
100	.0000	.0000	.0000	.0000	.0000	.0000

MOD MAT. ENT. PRINC. HOSP. "PRINCE LARA". PTO. CABELLO// 1.00SX+0.30SY

PROGRAM:SAF90/FILE:ENTRADAR.SOL

JOINT DISPLACEMENTS

DYNAMIC LOAD - DISPLACEMENTS "U" AND ROTATIONS "R"

JOINT	U(X)	U(Y)	U(Z)	R(X)	R(Y)	R(Z)
1	.000000	.000000	.000000	.000000	.000000	.000000
2	.000000	.000000	.000000	.000000	.000000	.000000
3	.000000	.000000	.000000	.000000	.000000	.000000
4	.000000	.000000	.000000	.000000	.000000	.000000
5	.000000	.000000	.000000	.000000	.000000	.000000
6	.000000	.000000	.000000	.000000	.000000	.000000
7	.000000	.000000	.000000	.000000	.000000	.000000
8	.000000	.000000	.000000	.000000	.000000	.000000
9	.000000	.000000	.000000	.000000	.000000	.000000
10	.000000	.000000	.000000	.000000	.000000	.000000
11	.000000	.000000	.000000	.000000	.000000	.000000
12	.000000	.000000	.000000	.000000	.000000	.000000
13	.000000	.000000	.000000	.000000	.000000	.000000
14	.000000	.000000	.000000	.000000	.000000	.000000
15	.000000	.000000	.000000	.000000	.000000	.000000
16	.000000	.000000	.000000	.000000	.000000	.000000
17	.004814	.001803	.000001	.000201	.000498	.000085
18	.004814	.002392	.000000	.000533	.000835	.000085
19	.004814	.002996	.000000	.000443	.000639	.000085
20	.004814	.000637	.002653	.001007	.006772	.000085
21	.004814	.000651	.000004	.001021	.006893	.000085
22	.004814	.001154	.000007	.000762	.001777	.000085
23	.004814	.001803	.000001	.000095	.000248	.000085
24	.004814	.002392	.000000	.000314	.000403	.000085
25	.004814	.002996	.000000	.000283	.000402	.000085
26	.004814	.003592	.000000	.001015	.001211	.000085
27	.004814	.003682	.001125	.000985	.000933	.000085
28	.004801	.000637	.002652	.001007	.006743	.000085
29	.004801	.000651	.000004	.001021	.006863	.000085
30	.004801	.001154	.000009	.000791	.002075	.000085
31	.004808	.000637	.002655	.001007	.006753	.000085
32	.004808	.000651	.000004	.001021	.006873	.000085
33	.004808	.001154	.000009	.000791	.002078	.000085
34	.004824	.001803	.000001	.000201	.000496	.000085
35	.004824	.002392	.000001	.000526	.000946	.000085
36	.004824	.000637	.002669	.001007	.006787	.000085
37	.004824	.000651	.000004	.001021	.006908	.000085
38	.004824	.001154	.000007	.000762	.001780	.000085
39	.004824	.001803	.000001	.000095	.000245	.000085
40	.004824	.002392	.000000	.000296	.000499	.000085
41	.004824	.002996	.000001	.000936	.000647	.000085
42	.004824	.003592	.000001	.001013	.001148	.000085
43	.004824	.003682	.001068	.000983	.000886	.000085
100	.004792	.001999	.000000	.000000	.000000	.000085

MOD MAT. ENT. PRINC. HOSP. "PRINCE LARA". PTO. CABELLO// 0.30SX+1.00SY

F R A M E E L E M E N T F O R C E S

ELF LOAD ID COND	AXIAL DIST FORCE ENDI	1-2 PLANE SHEAR	MOMENT	1-3 PLANE SHEAR	MOMENT	AXIAL TORQ
1						
DYN	283.78					151.20
	.1	10811.90	7493.75	8101.51	6766.68	
	.9	10811.90	615.17	8101.51	693.59	
2						
DYN	228.77					66.61
	.1	1454.63	1798.36	1104.88	2149.43	
	2.1	1454.63	1139.99	1104.88	120.26	
3						
DYN	20.63					66.61
	.1	2209.56	2323.87	6008.28	6341.31	
	2.1	2209.56	2139.45	6008.28	5795.40	
4						
DYN	83.64					.00
	.1	4356.47	1660.70	13503.37	4939.89	
	.4	4356.47	571.58	13503.37	1564.40	
5						
DYN	1.06					66.61
	.1	2010.44	2185.26	6817.17	7609.93	
	2.1	2010.44	1875.87	6817.17	6160.75	
6						
DYN	6.75					.00
	.1	2017.07	1367.35	7499.80	5971.28	
	.8	2017.07	4.26	7499.80	871.42	
7						
DYN	141.96					
	.1	1145.45	1980.38	42901.18	75108.07	
	3.3	1145.45	1650.68	42901.18	60888.68	
8						
DYN	205.35					
	.1	1156.65	1408.87	48514.82	60208.86	
	1.2	1156.65	124.99	48514.82	6357.42	
9						
DYN	242.90					
	.1	669.47	2660.28	4896.73	22885.71	
	5.1	669.47	660.28	4896.73	1402.05	
10						
DYN	25056.60					64.14
	.0	1282.33	.00	9476.92	1250.68	
	.3	1282.33	340.48	9476.92	1265.56	
11						
DYN	16.13					114.51
	.1	288.16	1429.87	71.95	316.08	
	8.5	288.16	970.13	71.95	285.79	
12						
DYN	3.03					180.94
	.1	52.97	309.04	10.10	58.29	
	8.3	52.97	123.44	10.10	24.21	
13						
DYN	.65					53.79
	.1	30.66	99.20	8.38	24.29	
	7.1	30.66	115.79	8.38	34.45	

MOD MAT. ENT. PRINC. HOSP. "PRINCE LARA". PTO. (ABELLO// 0.30SX+1.00SY

FRAME ELEMENT FORCES

ELT LOAD	AXIAL DIST	1-2 PLANE	1-2 PLANE	AXIAL
ID COND	FORCE ENDI	SHEAR	MOMENT	TORQ
14	DYN .77			8.41
	.1	37.39	132.10	11.96 42.95
	7.2	37.39	131.98	11.96 41.53
15	DYN 4.40			
	.1	85.91	106.32	290.80 431.99
	7.0	85.91	487.59	290.80 1578.48
16	DYN 4143.11			49.27
	.1	227.09	217.25	1863.92 896.34
	1.1	227.09	.00	1863.92 886.81
41	DYN .00			82.05
	.1	63.01	202.51	.00 .00
	7.1	63.01	238.59	.00 .00
42	DYN .00			22.84
	.1	68.71	252.60	.00 .00
	7.2	68.71	231.82	.00 .00
17	DYN 241.25			151.20
	.1	8935.70	6177.75	8095.01 6765.05
	.9	8935.70	524.03	8095.01 697.06
18	DYN 239.04			66.61
	.1	1049.87	1377.69	982.71 2064.24
	2.1	1049.87	743.03	982.71 122.89
19	DYN 20594.84			64.15
	.0	1053.82	.00	9479.03 1250.96
	.3	1053.82	279.80	9479.03 1265.84
20	DYN 15.76			113.82
	.1	245.23	1198.81	73.08 319.17
	8.5	245.23	843.61	73.08 292.17
21	DYN 248.98			151.20
	.1	9224.28	6377.24	8095.01 6765.05
	.9	9224.28	540.97	8095.01 697.06
22	DYN 246.77			66.61
	.1	1083.77	1422.18	982.71 2064.24
	2.1	1083.77	767.03	982.71 122.89
23	DYN 21259.83			64.15
	.0	1087.91	.00	9479.03 1250.96
	.3	1087.91	288.85	9479.03 1265.84
24	DYN 16.27			113.82
	.1	253.15	1237.52	73.08 319.17
	8.5	253.15	870.85	73.08 292.17

MOD MAT. ENT. PRINC. HOSP. "PRINCE LARA". PTO. CABELLO// 0.30SX+1.00SY

FRAME ELEMENT FORCES

ELI	LOAD	AXIAL DIST		1-2 PLANE		1-3 PLANE	AXIAL
ID	COND	FORCE ENDI		SHEAR	MOMENT	SHEAR	TORQ
25							
	DYN	293.02					151.20
		.1	11166.70	7739.67	8101.51	6766.68	
		.9	11166.70	635.36	8101.51	693.59	
26							
	DYN	235.67					66.61
		.1	1502.52	1857.49	1104.86	2149.42	
		2.1	1502.52	1177.61	1104.86	120.24	
27							
	DYN	20.61					66.61
		.1	2284.01	2401.48	6008.72	6341.62	
		2.1	2284.01	2212.23	6008.72	5795.99	
28							
	DYN	90.86					.00
		.1	4500.32	1705.39	13509.84	4937.90	
		.4	4500.32	580.31	13509.84	1560.79	
29							
	DYN	27.39					66.61
		.1	2009.89	2210.66	6849.88	7632.70	
		2.1	2009.89	1849.32	6849.88	6204.06	
30							
	DYN	42.00					.00
		.1	2157.56	1551.90	7881.24	5995.02	
		.8	2157.56	87.47	7881.24	635.88	
31							
	DYN	269.62					
		.1	356.47	927.66	4975.01	21787.27	
		4.7	356.47	687.16	4975.01	749.51	
32							
	DYN	198.30					
		.1	761.39	2866.01	4917.55	22920.98	
		5.1	761.39	910.46	4917.55	1470.09	
33							
	DYN	25878.86					64.14
		.0	1324.47	.00	9476.92	1250.68	
		.3	1324.47	351.66	9476.92	1265.56	
34							
	DYN	16.65					114.51
		.1	297.61	1476.77	71.95	316.08	
		8.5	297.61	1001.92	71.95	285.79	
35							
	DYN	3.13					180.91
		.1	54.81	319.45	10.10	58.30	
		8.3	54.81	128.09	10.10	24.22	
36							
	DYN	.57					49.24
		.1	36.11	112.65	7.99	23.37	
		7.1	36.11	140.56	7.99	32.67	
37							
	DYN	.70					200.07
		.1	7.09	37.57	12.85	17.27	
		7.2	7.09	87.60	12.85	73.51	

MOD MAT. ENT. PRINC. HOSP. "PRINCE LARA". PTO. CABELLO// 0.30SX+1.00SY

FRAME ELEMENT FORCES

ELT	LOAD	AXIAL DIST	1-2 PLANE		1-3 PLANE		AXIAL
ID	COND	FORCE END1	SHEAR	MOMENT	SHEAR	MOMENT	TORQ
38							
	DYN	10.32					
		.1	196.66	618.65	774.64	2643.67	
		7.0	196.66	740.86	774.64	2711.44	
39							
	DYN	4050.94					49.19
		.1	222.06	212.44	1861.08	894.97	
		1.1	222.06	.00	1861.08	885.46	
40							
	DYN	.00					80.20
		.1	70.24	221.02	.00	.00	
		7.1	70.24	270.68	.00	.00	
43							
	DYN	.00					
		.3	96.92	226.63	.00	.00	
		11.7	96.92	869.51	.00	.00	
44							
	DYN	.00					
		.3	300.83	1701.58	.00	.00	
		11.7	300.83	1700.76	.00	.00	

MOD MAT. ENT. PRINC. HOBF. "PRINCE LARA". FID. CABELLO// 0.20SX+1.00SY

R E A C T I O N S A N D A P P L I E D F O R C E S

DYNAMIC LOAD - FORCES "F" AND MOMENTS "M"

JOINT	F(X)	F(Y)	F(Z)	M(X)	M(Y)	M(Z)
1	.1081E+05	.8102E+04	.2838E+03	.7779E+04	.8845E+04	.1512E+03
2	1454.6276	1104.8771	228.3693	2287.4351	1980.1884	66.6090
3	2209.5626	6008.2753	20.6348	7092.3493	2600.0609	66.6090
4	2010.4364	6817.1690	1.0570	8462.0793	2436.5596	66.6090
5	.1145E+04	.4290E+05	.1420E+03	.8047E+05	.2124E+04	.0000E+00
6	.6695E+03	.4897E+04	.2429E+03	.2350E+05	.2744E+04	.0000E+00
7	8935.6998	8095.0064	241.2475	7776.8813	7294.7084	151.2025
8	1049.0652	982.7108	239.0376	2186.9583	1508.9266	66.6090
9	9224.2756	8095.0064	248.9764	7776.8813	7530.2746	151.2025
10	1083.7661	982.7108	246.7674	2186.9583	1557.6511	66.6090
11	.1117E+05	.8102E+04	.2930E+03	.7779E+04	.9136E+04	.1512E+03
12	1502.5229	1104.8573	235.6664	2287.4190	2045.3023	66.6090
13	2284.0133	6008.7162	20.6065	7092.7113	2686.9794	66.6090
14	2009.8932	6849.8829	27.3917	8488.9403	2461.9010	66.6090
15	.3565E+03	.4975E+04	.2696E+03	.2241E+05	.9722E+03	.0000E+00
16	.7614E+03	.4918E+04	.1983E+03	.2354E+05	.2961E+04	.0000E+00
17	.6566E+04	.1951E+05	.9514E-01	.1589E-10	.6252E-11	.6661E+02
18	.4028E+04	.1432E+05	.2717E-01	.1147E-10	.0000E+00	.6661E+02
19	.2302E+04	.9142E+05	.1593E-01	.2515E-10	.0000E+00	.2474E-08
20	.2509E+05	.9477E+04	.2857E+01	.0000E+00	.5691E-11	.1252E+04
21	.3584E+05	.1751E+05	.1082E+00	.3306E-11	.1193E-10	.2682E+04
22	1520.3505	1181.2498	.4487	.0000	.0000	216.9567
23	.4359E+04	.1352E+05	.1699E+00	.7782E-11	.6884E-11	.1308E+02
24	2017.1508	7503.3790	.0270	.0000	.0000	76.1606
25	.1148E+04	.4821E+05	.4384E-01	.3542E-10	.1655E-11	.4243E+03
26	4812.3703	6469.8722	.0657	.0000	.0000	2736.7580
27	4149.3240	1863.9211	3.4217	.0000	.0000	888.1808
28	.2062E+05	.9479E+04	.2453E+01	.0000E+00	.4486E-11	.1253E+04
29	.2950E+05	.1750E+05	.1011E+00	.2774E-11	.1752E-10	.2687E+04
30	1107.7001	1050.0708	.2276	.0000	.0000	264.4110
31	.2129E+05	.9479E+04	.2474E+01	.0000E+00	.0000E+00	.1253E+04
32	.3045E+05	.1750E+05	.9714E-01	.2774E-11	.1797E-10	.2687E+04
33	1143.4678	1050.0708	.2358	.0000	.0000	264.4110
34	.6784E+04	.1952E+05	.4797E+00	.5827E-11	.4496E-11	.6661E+02
35	.4163E+04	.1473E+05	.5571E+00	.0000E+00	.2609E-11	.6661E+02
36	.2591E+05	.9477E+04	.2885E+01	.1170E-11	.3725E-11	.1252E+04
37	.3701E+05	.1751E+05	.1130E+00	.8292E-11	.1078E-10	.2682E+04
38	1570.4041	1181.2326	.4654	.0000	.0000	216.9521
39	.4503E+04	.1353E+05	.8756E+00	.8541E-11	.4067E-11	.1358E+02
40	2151.1253	7860.4408	1.0326	.0000	.0000	6.7074
41	378.0290	5736.7031	.1134	.0000	.0000	2792.9031
42	4797.1367	6004.0983	.1316	.0000	.0000	3926.2966
43	4057.0187	1861.0768	3.4449	.0000	.0000	886.8254
100	.0000	.0000	.0000	.0000	.0000	.0000

MOD MAT. ENT. PRINC. HUSF. "PRINCE LARA". PTO. CABELLO// 0.30SX+1.00SY

PROGRAM: SAP90/FILE: ENTRADAR.SOL

JOINT DISPLACEMENTS

DYNAMIC LOAD DISPLACEMENTS "U" AND ROTATIONS "R"

JOINT	U(X)	U(Y)	U(Z)	R(X)	R(Y)	R(Z)
1	.000000	.000000	.000000	.000000	.000000	.000000
2	.000000	.000000	.000000	.000000	.000000	.000000
3	.000000	.000000	.000000	.000000	.000000	.000000
4	.000000	.000000	.000000	.000000	.000000	.000000
5	.000000	.000000	.000000	.000000	.000000	.000000
6	.000000	.000000	.000000	.000000	.000000	.000000
7	.000000	.000000	.000000	.000000	.000000	.000000
8	.000000	.000000	.000000	.000000	.000000	.000000
9	.000000	.000000	.000000	.000000	.000000	.000000
10	.000000	.000000	.000000	.000000	.000000	.000000
11	.000000	.000000	.000000	.000000	.000000	.000000
12	.000000	.000000	.000000	.000000	.000000	.000000
13	.000000	.000000	.000000	.000000	.000000	.000000
14	.000000	.000000	.000000	.000000	.000000	.000000
15	.000000	.000000	.000000	.000000	.000000	.000000
16	.000000	.000000	.000000	.000000	.000000	.000000
17	.002187	.006007	.000000	.000669	.000226	.000282
18	.002187	.007971	.000000	.001776	.000379	.000282
19	.002187	.009981	.000000	.001476	.000290	.000282
20	.002187	.002118	.001209	.003347	.003076	.000282
21	.002187	.002163	.000002	.003394	.003131	.000282
22	.002187	.003843	.000003	.002538	.000807	.000282
23	.002187	.006007	.000001	.000318	.000113	.000282
24	.002187	.007971	.000000	.001047	.000183	.000282
25	.002187	.009981	.000000	.000943	.000183	.000282
26	.002187	.011967	.000000	.003381	.000550	.000282
27	.002187	.012268	.000511	.003281	.000424	.000282
28	.001800	.002118	.000994	.003348	.002528	.000282
29	.001800	.002163	.000002	.003395	.002573	.000282
30	.001800	.003843	.000003	.002632	.000778	.000282
31	.001858	.002118	.001026	.003348	.002610	.000282
32	.001858	.002163	.000002	.003395	.002656	.000282
33	.001858	.003843	.000004	.002632	.000803	.000282
34	.002258	.006007	.000000	.000669	.000232	.000282
35	.002258	.007971	.000000	.001751	.000443	.000282
36	.002258	.002118	.001249	.003347	.003177	.000282
37	.002258	.002163	.000002	.003394	.003233	.000282
38	.002258	.003843	.000003	.002538	.000837	.000282
39	.002258	.006007	.000001	.000317	.000115	.000282
40	.002258	.007971	.000000	.000985	.000234	.000282
41	.002258	.009981	.000000	.003120	.000303	.000282
42	.002258	.011967	.000000	.003376	.000537	.000282
43	.002258	.012268	.000499	.003276	.000414	.000282
400	.001439	.006658	.000000	.000000	.000000	.000282

12/12