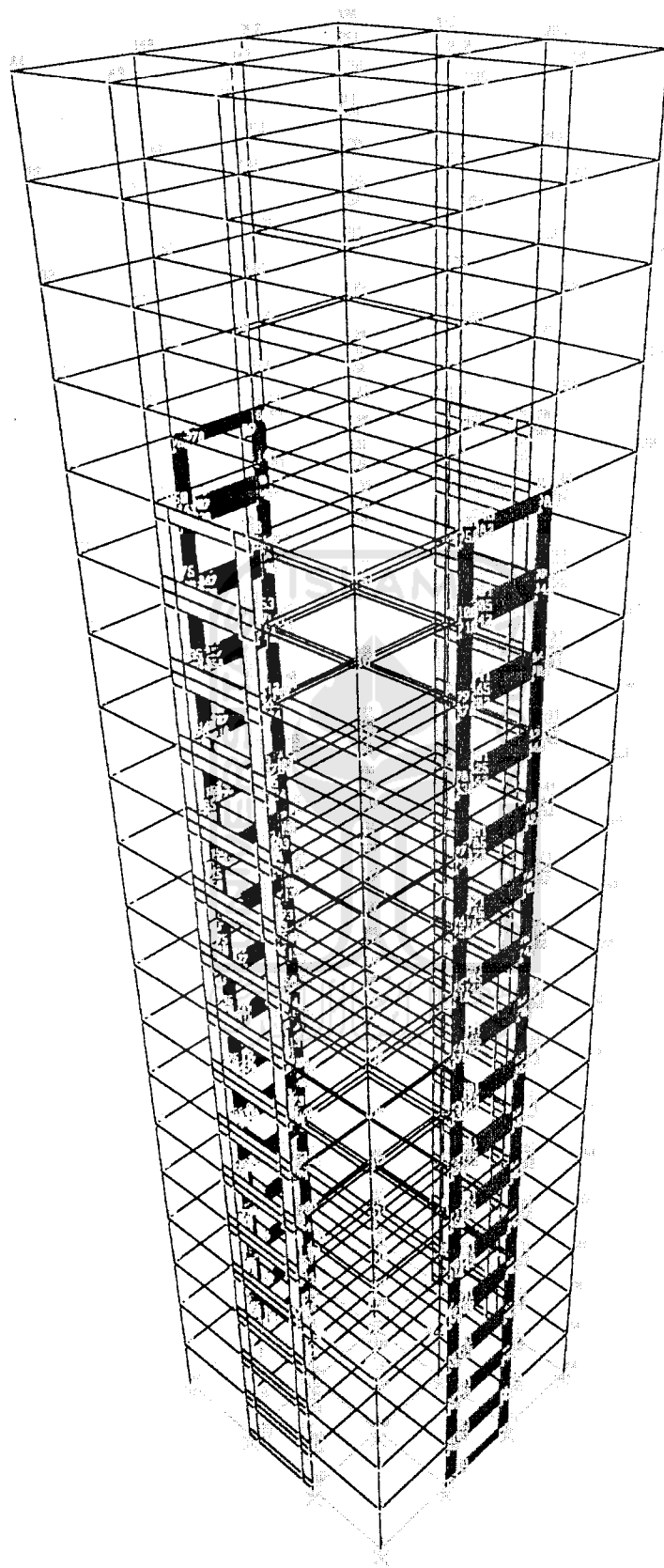


LAMPIRAN I

Contoh input SAP 2000 variasi 7 rasio luas lubang 60%



SAP2000



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STATIC LOAD CASES

STATIC CASE	CASE TYPE	SELF WT FACTOR
DL	DEAD	1.0000
LL	DEAD	0.0000

TIME HISTORY CASES

HISTORY CASE	HISTORY TYPE	NUMBER OF TIME STEPS	TIME STEP INCREMENT
ELCENTRO	LINEAR	500	0.02000

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JOINT DATA

JOINT	GLOBAL-X	GLOBAL-Y	GLOBAL-Z	RESTRAINTS	ANGLE-A	ANGLE-B	ANGLE-C
1	-9.00000	-9.00000	0.00000	1 1 1 1 1 1	0.000	0.000	0.000
2	-9.00000	-9.00000	4.00000	0 0 0 0 0 0	0.000	0.000	0.000
3	-9.00000	-9.00000	8.00000	0 0 0 0 0 0	0.000	0.000	0.000
4	-9.00000	-9.00000	12.00000	0 0 0 0 0 0	0.000	0.000	0.000
5	-9.00000	-9.00000	16.00000	0 0 0 0 0 0	0.000	0.000	0.000
6	-9.00000	-9.00000	20.00000	0 0 0 0 0 0	0.000	0.000	0.000
7	-9.00000	-9.00000	24.00000	0 0 0 0 0 0	0.000	0.000	0.000
8	-9.00000	-9.00000	28.00000	0 0 0 0 0 0	0.000	0.000	0.000
9	-9.00000	-9.00000	32.00000	0 0 0 0 0 0	0.000	0.000	0.000
10	-9.00000	-9.00000	36.00000	0 0 0 0 0 0	0.000	0.000	0.000
11	-9.00000	-9.00000	40.00000	0 0 0 0 0 0	0.000	0.000	0.000
12	-9.00000	-9.00000	44.00000	0 0 0 0 0 0	0.000	0.000	0.000
13	-9.00000	-9.00000	48.00000	0 0 0 0 0 0	0.000	0.000	0.000
14	-9.00000	-9.00000	52.00000	0 0 0 0 0 0	0.000	0.000	0.000
15	-9.00000	-9.00000	56.00000	0 0 0 0 0 0	0.000	0.000	0.000
16	-9.00000	-9.00000	60.00000	0 0 0 0 0 0	0.000	0.000	0.000
17	-9.00000	-9.00000	64.00000	0 0 0 0 0 0	0.000	0.000	0.000
18	-9.00000	-9.00000	68.00000	0 0 0 0 0 0	0.000	0.000	0.000
19	-9.00000	-9.00000	72.00000	0 0 0 0 0 0	0.000	0.000	0.000
20	-9.00000	-9.00000	76.00000	0 0 0 0 0 0	0.000	0.000	0.000
21	-9.00000	-9.00000	80.00000	0 0 0 0 0 0	0.000	0.000	0.000
22	-9.00000	-3.00000	0.00000	1 1 1 1 1 1	0.000	0.000	0.000
23	-9.00000	-3.00000	4.00000	0 0 0 0 0 0	0.000	0.000	0.000
24	-9.00000	-3.00000	8.00000	0 0 0 0 0 0	0.000	0.000	0.000
25	-9.00000	-3.00000	12.00000	0 0 0 0 0 0	0.000	0.000	0.000
26	-9.00000	-3.00000	16.00000	0 0 0 0 0 0	0.000	0.000	0.000
27	-9.00000	-3.00000	20.00000	0 0 0 0 0 0	0.000	0.000	0.000
28	-9.00000	-3.00000	24.00000	0 0 0 0 0 0	0.000	0.000	0.000
29	-9.00000	-3.00000	28.00000	0 0 0 0 0 0	0.000	0.000	0.000
30	-9.00000	-3.00000	32.00000	0 0 0 0 0 0	0.000	0.000	0.000
31	-9.00000	-3.00000	36.00000	0 0 0 0 0 0	0.000	0.000	0.000
32	-9.00000	-3.00000	40.00000	0 0 0 0 0 0	0.000	0.000	0.000
33	-9.00000	-3.00000	44.00000	0 0 0 0 0 0	0.000	0.000	0.000
34	-9.00000	-3.00000	48.00000	0 0 0 0 0 0	0.000	0.000	0.000
35	-9.00000	-3.00000	52.00000	0 0 0 0 0 0	0.000	0.000	0.000
36	-9.00000	-3.00000	56.00000	0 0 0 0 0 0	0.000	0.000	0.000
37	-9.00000	-3.00000	60.00000	0 0 0 0 0 0	0.000	0.000	0.000
38	-9.00000	-3.00000	64.00000	0 0 0 0 0 0	0.000	0.000	0.000
39	-9.00000	-3.00000	68.00000	0 0 0 0 0 0	0.000	0.000	0.000
40	-9.00000	-3.00000	72.00000	0 0 0 0 0 0	0.000	0.000	0.000
41	-9.00000	-3.00000	76.00000	0 0 0 0 0 0	0.000	0.000	0.000
42	-9.00000	-3.00000	80.00000	0 0 0 0 0 0	0.000	0.000	0.000
43	-9.00000	3.00000	0.00000	1 1 1 1 1 1	0.000	0.000	0.000
44	-9.00000	3.00000	4.00000	0 0 0 0 0 0	0.000	0.000	0.000
45	-9.00000	3.00000	8.00000	0 0 0 0 0 0	0.000	0.000	0.000
46	-9.00000	3.00000	12.00000	0 0 0 0 0 0	0.000	0.000	0.000
47	-9.00000	3.00000	16.00000	0 0 0 0 0 0	0.000	0.000	0.000
48	-9.00000	3.00000	20.00000	0 0 0 0 0 0	0.000	0.000	0.000
49	-9.00000	3.00000	24.00000	0 0 0 0 0 0	0.000	0.000	0.000
50	-9.00000	3.00000	28.00000	0 0 0 0 0 0	0.000	0.000	0.000
51	-9.00000	3.00000	32.00000	0 0 0 0 0 0	0.000	0.000	0.000
52	-9.00000	3.00000	36.00000	0 0 0 0 0 0	0.000	0.000	0.000
53	-9.00000	3.00000	40.00000	0 0 0 0 0 0	0.000	0.000	0.000
54	-9.00000	3.00000	44.00000	0 0 0 0 0 0	0.000	0.000	0.000
55	-9.00000	3.00000	48.00000	0 0 0 0 0 0	0.000	0.000	0.000
56	-9.00000	3.00000	52.00000	0 0 0 0 0 0	0.000	0.000	0.000
57	-9.00000	3.00000	56.00000	0 0 0 0 0 0	0.000	0.000	0.000

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J O I N T C O N S T R A I N T D A T A

JOINT	TYPE
2	DIAPH1
23	DIAPH1
44	DIAPH1
65	DIAPH1
86	DIAPH1
107	DIAPH1
128	DIAPH1
149	DIAPH1
170	DIAPH1
191	DIAPH1
212	DIAPH1
233	DIAPH1
254	DIAPH1
275	DIAPH1
296	DIAPH1
317	DIAPH1
337	DIAPH1
338	DIAPH1
339	DIAPH1
340	DIAPH1
341	DIAPH1
342	DIAPH1
343	DIAPH1
344	DIAPH1
3	DIAPH2
24	DIAPH2
45	DIAPH2
66	DIAPH2
87	DIAPH2
108	DIAPH2
129	DIAPH2
150	DIAPH2
171	DIAPH2
192	DIAPH2
213	DIAPH2
234	DIAPH2
255	DIAPH2
276	DIAPH2
297	DIAPH2
318	DIAPH2
385	DIAPH2
386	DIAPH2
387	DIAPH2
388	DIAPH2
389	DIAPH2
390	DIAPH2
391	DIAPH2
392	DIAPH2
4	DIAPH3
25	DIAPH3
46	DIAPH3
67	DIAPH3
88	DIAPH3
109	DIAPH3
130	DIAPH3
151	DIAPH3
172	DIAPH3
193	DIAPH3
214	DIAPH3
235	DIAPH3
256	DIAPH3
277	DIAPH3
298	DIAPH3
319	DIAPH3
425	DIAPH3
426	DIAPH3
427	DIAPH3
428	DIAPH3
429	DIAPH3
430	DIAPH3
431	DIAPH3
432	DIAPH3
5	DIAPH4
26	DIAPH4
47	DIAPH4
68	DIAPH4
89	DIAPH4



FRAME ELEMENT DATA			SECTION	ANGLE	RELEASES	SEGMENTS	R1	R2	FACTOR	LENGTH
FRAME	JNT-1	JNT-2								
1	1	2	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
2	2	3	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
3	3	4	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
4	4	5	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
5	5	6	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
6	6	7	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
7	7	8	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
8	8	9	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
9	9	10	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
10	10	11	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
11	11	12	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
12	12	13	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
13	13	14	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
14	14	15	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
15	15	16	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
16	16	17	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
17	17	18	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
18	18	19	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
19	19	20	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
20	20	21	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
22	23	24	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
23	24	25	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
24	25	26	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
25	26	27	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
26	27	28	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
27	28	29	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
28	29	30	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
29	30	31	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
30	31	32	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
31	32	33	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
32	33	34	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
33	34	35	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
34	35	36	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
35	36	37	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
36	37	38	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
37	38	39	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
38	39	40	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
39	40	41	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
40	41	42	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
42	44	45	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
43	45	46	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
44	46	47	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
45	47	48	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
46	48	49	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
47	49	50	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
48	50	51	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
49	51	52	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
50	52	53	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
51	53	54	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
52	54	55	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
53	55	56	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
54	56	57	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
55	57	58	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
56	58	59	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
57	59	60	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
58	60	61	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
59	61	62	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
60	62	63	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
61	64	65	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
62	65	66	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
63	66	67	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
64	67	68	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
65	68	69	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
66	69	70	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
67	70	71	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
68	71	72	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
69	72	73	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
70	73	74	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
71	74	75	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
72	75	76	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
73	76	77	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
74	77	78	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
75	78	79	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
76	79	80	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000
77	80	81	K60X60	0.000	000000	2	0.000	0.000	1.000	4.000

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S H E L L E L E M E N T D A T A

SHELL	JNT-1	JNT-2	JNT-3	JNT-4	SECTION	ANGLE	AREA
5	274	349	365	369	DDGSR	0.000	0.621
6	365	369	366	370	DDGSR	0.000	2.391
7	366	370	275	343	DDGSR	0.000	0.621
8	349	350	369	371	DDGSR	0.000	2.860
10	370	372	343	344	DDGSR	0.000	2.860
11	350	295	371	367	DDGSR	0.000	0.621
12	371	367	372	368	DDGSR	0.000	2.391
13	372	368	344	296	DDGSR	0.000	0.621
14	22	351	353	373	DDGSR	0.000	0.621
15	353	373	354	374	DDGSR	0.000	2.391
16	354	374	23	341	DDGSR	0.000	0.621
17	351	352	373	375	DDGSR	0.000	2.860
19	374	376	341	342	DDGSR	0.000	2.860
20	352	43	375	355	DDGSR	0.000	0.621
21	375	355	376	356	DDGSR	0.000	2.391
22	376	356	342	44	DDGSR	0.000	0.621
23	148	345	359	377	DDGSR	0.000	0.621
24	359	377	360	378	DDGSR	0.000	2.391
25	360	378	149	339	DDGSR	0.000	0.621
26	345	346	377	379	DDGSR	0.000	2.860
28	378	380	339	340	DDGSR	0.000	2.860
29	346	232	379	363	DDGSR	0.000	0.621
30	379	363	380	364	DDGSR	0.000	2.391
31	380	364	340	233	DDGSR	0.000	0.621
32	85	347	357	381	DDGSR	0.000	0.621
33	357	381	358	382	DDGSR	0.000	2.391
34	358	382	86	337	DDGSR	0.000	0.621
35	347	348	381	383	DDGSR	0.000	2.860
37	382	384	337	338	DDGSR	0.000	2.860
38	348	169	383	361	DDGSR	0.000	0.621
39	383	361	384	362	DDGSR	0.000	2.391
40	384	362	338	170	DDGSR	0.000	0.621
41	275	343	405	409	DDGSR	0.000	0.621
42	405	409	406	410	DDGSR	0.000	2.391
43	406	410	276	391	DDGSR	0.000	0.621
44	343	344	409	411	DDGSR	0.000	2.860
45	410	412	391	392	DDGSR	0.000	2.860
46	344	296	411	407	DDGSR	0.000	0.621
47	411	407	412	408	DDGSR	0.000	2.391
48	412	408	392	297	DDGSR	0.000	0.621
49	23	341	393	413	DDGSR	0.000	0.621
50	393	413	394	414	DDGSR	0.000	2.391
51	394	414	24	389	DDGSR	0.000	0.621
52	341	342	413	415	DDGSR	0.000	2.860
53	414	416	389	390	DDGSR	0.000	2.860
54	342	44	415	395	DDGSR	0.000	0.621
55	415	395	416	396	DDGSR	0.000	2.391
56	416	396	390	45	DDGSR	0.000	0.621
57	149	339	399	417	DDGSR	0.000	0.621
58	399	417	400	418	DDGSR	0.000	2.391
59	400	418	150	387	DDGSR	0.000	0.621
60	339	340	417	419	DDGSR	0.000	2.860
61	418	420	387	388	DDGSR	0.000	2.860
62	340	233	419	403	DDGSR	0.000	0.621
63	419	403	420	404	DDGSR	0.000	2.391
64	420	404	388	234	DDGSR	0.000	0.621
65	86	337	397	421	DDGSR	0.000	0.621
66	397	421	398	422	DDGSR	0.000	2.391
67	398	422	87	385	DDGSR	0.000	0.621
68	337	338	421	423	DDGSR	0.000	2.860
69	422	424	385	386	DDGSR	0.000	2.860
70	338	170	423	401	DDGSR	0.000	0.621
71	423	401	424	402	DDGSR	0.000	2.391
72	424	402	386	171	DDGSR	0.000	0.621
73	276	391	445	449	DDGSR	0.000	0.621
74	445	449	446	450	DDGSR	0.000	2.391
75	446	450	277	431	DDGSR	0.000	0.621
76	391	392	449	451	DDGSR	0.000	2.860
77	450	452	431	432	DDGSR	0.000	2.860
78	392	297	451	447	DDGSR	0.000	0.621
79	451	447	452	448	DDGSR	0.000	2.391
80	452	448	432	298	DDGSR	0.000	0.621
81	24	389	433	453	DDGSR	0.000	0.621
82	433	453	434	454	DDGSR	0.000	2.391
83	434	454	25	429	DDGSR	0.000	0.621
84	389	390	453	455	DDGSR	0.000	2.860
85	454	456	429	430	DDGSR	0.000	2.860
86	390	45	455	435	DDGSR	0.000	0.621
87	455	435	456	436	DDGSR	0.000	2.391
88	456	436	430	46	DDGSR	0.000	0.621

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FRAME SPAN DISTRIBUTED LOADS Load Case DL						
FRAME	TYPE	DIRECTION	DISTANCE-A	VALUE-A	DISTANCE-B	VALUE-B
580	FORCE	GLOBAL-Z	0.0000	-4.2500	1.0000	-4.2500
600	FORCE	GLOBAL-Z	0.0000	-4.2500	1.0000	-4.2500
620	FORCE	GLOBAL-Z	0.0000	-4.2500	1.0000	-4.2500
760	FORCE	GLOBAL-Z	0.0000	-4.2500	1.0000	-4.2500
780	FORCE	GLOBAL-Z	0.0000	-4.2500	1.0000	-4.2500
800	FORCE	GLOBAL-Z	0.0000	-4.2500	1.0000	-4.2500
580	FORCE	GLOBAL-Z	0.0000	0.0000	0.5000	-9.1800
580	FORCE	GLOBAL-Z	0.5000	-9.1800	1.0000	0.0000
600	FORCE	GLOBAL-Z	0.0000	0.0000	0.5000	-9.1800
600	FORCE	GLOBAL-Z	0.5000	-9.1800	1.0000	0.0000
620	FORCE	GLOBAL-Z	0.0000	0.0000	0.5000	-9.1800
620	FORCE	GLOBAL-Z	0.5000	-9.1800	1.0000	0.0000
760	FORCE	GLOBAL-Z	0.0000	0.0000	0.5000	-9.1800
760	FORCE	GLOBAL-Z	0.5000	-9.1800	1.0000	0.0000
780	FORCE	GLOBAL-Z	0.0000	0.0000	0.5000	-9.1800
780	FORCE	GLOBAL-Z	0.5000	-9.1800	1.0000	0.0000
800	FORCE	GLOBAL-Z	0.0000	0.0000	0.5000	-9.1800
800	FORCE	GLOBAL-Z	0.5000	-9.1800	1.0000	0.0000
800	FORCE	GLOBAL-Z	0.0000	-4.2500	1.0000	-4.2500
340	FORCE	GLOBAL-Z	0.0000	-4.2500	1.0000	-4.2500
360	FORCE	GLOBAL-Z	0.0000	-4.2500	1.0000	-4.2500
380	FORCE	GLOBAL-Z	0.0000	-4.2500	1.0000	-4.2500
520	FORCE	GLOBAL-Z	0.0000	-4.2500	1.0000	-4.2500
540	FORCE	GLOBAL-Z	0.0000	-4.2500	1.0000	-4.2500
560	FORCE	GLOBAL-Z	0.0000	-4.2500	1.0000	-4.2500
340	FORCE	GLOBAL-Z	0.0000	0.0000	0.5000	-9.1800
340	FORCE	GLOBAL-Z	0.5000	-9.1800	1.0000	0.0000
360	FORCE	GLOBAL-Z	0.0000	0.0000	0.5000	-9.1800
360	FORCE	GLOBAL-Z	0.5000	-9.1800	1.0000	0.0000
380	FORCE	GLOBAL-Z	0.0000	0.0000	0.5000	-9.1800
380	FORCE	GLOBAL-Z	0.5000	-9.1800	1.0000	0.0000
380	FORCE	GLOBAL-Z	0.0000	0.0000	0.5000	-9.1800
520	FORCE	GLOBAL-Z	0.0000	0.0000	0.5000	-9.1800
520	FORCE	GLOBAL-Z	0.5000	-9.1800	1.0000	0.0000
540	FORCE	GLOBAL-Z	0.0000	0.0000	0.5000	-9.1800
540	FORCE	GLOBAL-Z	0.5000	-9.1800	1.0000	0.0000
560	FORCE	GLOBAL-Z	0.0000	0.0000	0.5000	-9.1800
560	FORCE	GLOBAL-Z	0.5000	-9.1800	1.0000	0.0000
400	FORCE	GLOBAL-Z	0.0000	-4.2500	1.0000	-4.2500
420	FORCE	GLOBAL-Z	0.0000	-4.2500	1.0000	-4.2500
440	FORCE	GLOBAL-Z	0.0000	-4.2500	1.0000	-4.2500
460	FORCE	GLOBAL-Z	0.0000	-4.2500	1.0000	-4.2500
480	FORCE	GLOBAL-Z	0.0000	-4.2500	1.0000	-4.2500
500	FORCE	GLOBAL-Z	0.0000	-4.2500	1.0000	-4.2500
400	FORCE	GLOBAL-Z	0.0000	0.0000	0.5000	-18.3600
400	FORCE	GLOBAL-Z	0.5000	-18.3600	1.0000	0.0000
420	FORCE	GLOBAL-Z	0.0000	0.0000	0.5000	-18.3600
420	FORCE	GLOBAL-Z	0.5000	-18.3600	1.0000	0.0000
440	FORCE	GLOBAL-Z	0.0000	0.0000	0.5000	-18.3600
440	FORCE	GLOBAL-Z	0.5000	-18.3600	1.0000	0.0000
460	FORCE	GLOBAL-Z	0.0000	0.0000	0.5000	-18.3600
460	FORCE	GLOBAL-Z	0.5000	-18.3600	1.0000	0.0000
480	FORCE	GLOBAL-Z	0.0000	0.0000	0.5000	-18.3600
480	FORCE	GLOBAL-Z	0.5000	-18.3600	1.0000	0.0000
500	FORCE	GLOBAL-Z	0.0000	0.0000	0.5000	-18.3600
500	FORCE	GLOBAL-Z	0.5000	-18.3600	1.0000	0.0000
640	FORCE	GLOBAL-Z	0.0000	-4.2500	1.0000	-4.2500
660	FORCE	GLOBAL-Z	0.0000	-4.2500	1.0000	-4.2500
680	FORCE	GLOBAL-Z	0.0000	-4.2500	1.0000	-4.2500
700	FORCE	GLOBAL-Z	0.0000	-4.2500	1.0000	-4.2500
720	FORCE	GLOBAL-Z	0.0000	-4.2500	1.0000	-4.2500
740	FORCE	GLOBAL-Z	0.0000	-4.2500	1.0000	-4.2500
640	FORCE	GLOBAL-Z	0.0000	0.0000	0.5000	-18.3600
640	FORCE	GLOBAL-Z	0.5000	-18.3600	1.0000	0.0000
660	FORCE	GLOBAL-Z	0.0000	0.0000	0.5000	-18.3600
660	FORCE	GLOBAL-Z	0.5000	-18.3600	1.0000	0.0000
680	FORCE	GLOBAL-Z	0.0000	0.0000	0.5000	-18.3600
680	FORCE	GLOBAL-Z	0.5000	-18.3600	1.0000	0.0000
700	FORCE	GLOBAL-Z	0.0000	0.0000	0.5000	-18.3600
700	FORCE	GLOBAL-Z	0.5000	-18.3600	1.0000	0.0000
720	FORCE	GLOBAL-Z	0.0000	0.0000	0.5000	-18.3600
720	FORCE	GLOBAL-Z	0.5000	-18.3600	1.0000	0.0000
740	FORCE	GLOBAL-Z	0.0000	0.0000	0.5000	-18.3600
740	FORCE	GLOBAL-Z	0.5000	-18.3600	1.0000	0.0000
561	FORCE	GLOBAL-Z	0.0000	-8.5000	1.0000	-8.5000
562	FORCE	GLOBAL-Z	0.0000	-8.5000	1.0000	-8.5000
563	FORCE	GLOBAL-Z	0.0000	-8.5000	1.0000	-8.5000
564	FORCE	GLOBAL-Z	0.0000	-8.5000	1.0000	-8.5000
565	FORCE	GLOBAL-Z	0.0000	-8.5000	1.0000	-8.5000
566	FORCE	GLOBAL-Z	0.0000	-8.5000	1.0000	-8.5000
567	FORCE	GLOBAL-Z	0.0000	-8.5000	1.0000	-8.5000
568	FORCE	GLOBAL-Z	0.0000	-8.5000	1.0000	-8.5000

LAMPIRAN II

Contoh output SAP 2000 variasi 7 rasio luas lubang 60%



Table with 34 columns of numerical values. Each row contains a sequence of 34 numbers, with the first number in the row often being a label (e.g., '2.1', '2.12', '8.74E-04'). The values range from approximately -0.1336 to 0.0936.

3.44 -0.00125 -0.00392 -0.00738 -0.01171 -0.0167 -0.02234 -0.02859 -0.03536 -0.04257 -0.05013 -0.05795 -0.06593 -0.07397 -0.08199 -0.08995 -0.09783 -0.10585 -0.11383

3.46 -0.00129 -0.00398 -0.00745 -0.01174 -0.01678 -0.02241 -0.02907 -0.03609 -0.04353 -0.05143 -0.05975 -0.06851 -0.07682 -0.08575 -0.09474 -0.10376 -0.11278 -0.12179 -0.12974

3.48 -0.00135 -0.00411 -0.00762 -0.01183 -0.01698 -0.02270 -0.02959 -0.03680 -0.04440 -0.05243 -0.06083 -0.06961 -0.07875 -0.08815 -0.09764 -0.10716 -0.11670 -0.12624 -0.13374

3.5 -0.00143 -0.00427 -0.00781 -0.01201 -0.01716 -0.02294 -0.02994 -0.03731 -0.04509 -0.05330 -0.06206 -0.07125 -0.08086 -0.09075 -0.10079 -0.11096 -0.12116 -0.13133

3.52 -0.00151 -0.00445 -0.00807 -0.01227 -0.01742 -0.02329 -0.03039 -0.03790 -0.04592 -0.05442 -0.06342 -0.07289 -0.08275 -0.09290 -0.10324 -0.11366 -0.12413 -0.13333

3.54 -0.00157 -0.00461 -0.00825 -0.01251 -0.01766 -0.02353 -0.03072 -0.03834 -0.04646 -0.05504 -0.06418 -0.07377 -0.08373 -0.09404 -0.10456 -0.11526 -0.12602 -0.13574

3.56 -0.00161 -0.00475 -0.00840 -0.01277 -0.01792 -0.02379 -0.03107 -0.03870 -0.04692 -0.05560 -0.06484 -0.07462 -0.08485 -0.09543 -0.10625 -0.11720 -0.12820 -0.13774

3.58 -0.00169 -0.00493 -0.00858 -0.01303 -0.01818 -0.02405 -0.03133 -0.03896 -0.04718 -0.05597 -0.06522 -0.07500 -0.08523 -0.09581 -0.10663 -0.11760 -0.12868 -0.13874

3.6 -0.00179 -0.00511 -0.00876 -0.01329 -0.01844 -0.02431 -0.03159 -0.03922 -0.04744 -0.05623 -0.06558 -0.07546 -0.08579 -0.09647 -0.10740 -0.11848 -0.12956 -0.13974

3.62 -0.00189 -0.00523 -0.00888 -0.01355 -0.01870 -0.02457 -0.03185 -0.03948 -0.04770 -0.05649 -0.06584 -0.07572 -0.08605 -0.09673 -0.10766 -0.11864 -0.12962 -0.13980

3.64 -0.00199 -0.00535 -0.00900 -0.01381 -0.01896 -0.02483 -0.03211 -0.03974 -0.04796 -0.05675 -0.06610 -0.07600 -0.08633 -0.09701 -0.10794 -0.11892 -0.12990 -0.14008

3.66 -0.00209 -0.00547 -0.00912 -0.01407 -0.01922 -0.02509 -0.03237 -0.04000 -0.04822 -0.05701 -0.06636 -0.07626 -0.08659 -0.09727 -0.10820 -0.11918 -0.13016 -0.14034

3.68 -0.00219 -0.00559 -0.00924 -0.01433 -0.01948 -0.02535 -0.03263 -0.04026 -0.04848 -0.05727 -0.06662 -0.07652 -0.08685 -0.09753 -0.10846 -0.11944 -0.13042 -0.14060

3.7 -0.00229 -0.00571 -0.00936 -0.01459 -0.01974 -0.02561 -0.03289 -0.04052 -0.04874 -0.05753 -0.06688 -0.07678 -0.08711 -0.09779 -0.10872 -0.11970 -0.13068 -0.14086

3.72 -0.00239 -0.00583 -0.00948 -0.01485 -0.01999 -0.02586 -0.03314 -0.04077 -0.04900 -0.05779 -0.06714 -0.07704 -0.08737 -0.09805 -0.10898 -0.11996 -0.13094 -0.14112

3.74 -0.00249 -0.00595 -0.00960 -0.01511 -0.02026 -0.02613 -0.03341 -0.04104 -0.04926 -0.05805 -0.06740 -0.07730 -0.08763 -0.09831 -0.10924 -0.12022 -0.13120 -0.14138

3.76 -0.00259 -0.00607 -0.00972 -0.01537 -0.02052 -0.02639 -0.03367 -0.04130 -0.04952 -0.05831 -0.06766 -0.07756 -0.08789 -0.09857 -0.10950 -0.12048 -0.13146 -0.14164

3.78 -0.00269 -0.00619 -0.00984 -0.01563 -0.02078 -0.02665 -0.03393 -0.04156 -0.04978 -0.05857 -0.06792 -0.07782 -0.08815 -0.09883 -0.10976 -0.12074 -0.13172 -0.14190

3.8 -0.00279 -0.00631 -0.00996 -0.01589 -0.02123 -0.02710 -0.03438 -0.04201 -0.05023 -0.05902 -0.06837 -0.07827 -0.08860 -0.09928 -0.11021 -0.12119 -0.13217 -0.14235

3.82 -0.00289 -0.00643 -0.01008 -0.01615 -0.02149 -0.02736 -0.03464 -0.04227 -0.05049 -0.05928 -0.06863 -0.07853 -0.08886 -0.09954 -0.11047 -0.12145 -0.13243 -0.14261

3.84 -0.00299 -0.00655 -0.01020 -0.01641 -0.02175 -0.02762 -0.03490 -0.04253 -0.05075 -0.05954 -0.06889 -0.07879 -0.08912 -0.09980 -0.11073 -0.12171 -0.13269 -0.14287

3.86 -0.00309 -0.00667 -0.01032 -0.01667 -0.02201 -0.02788 -0.03516 -0.04279 -0.05101 -0.05980 -0.06915 -0.07905 -0.08938 -0.09996 -0.11089 -0.12187 -0.13285 -0.14303

3.88 -0.00319 -0.00679 -0.01044 -0.01693 -0.02231 -0.02818 -0.03546 -0.04309 -0.05131 -0.06010 -0.06945 -0.07935 -0.08968 -0.09999 -0.11091 -0.12189 -0.13287 -0.14305

3.9 -0.00329 -0.00691 -0.01056 -0.01719 -0.02253 -0.02840 -0.03568 -0.04331 -0.05153 -0.06032 -0.06967 -0.07957 -0.08990 -0.10000 -0.11093 -0.12191 -0.13289 -0.14307

3.92 -0.00339 -0.00703 -0.01068 -0.01745 -0.02277 -0.02864 -0.03592 -0.04355 -0.05177 -0.06056 -0.06991 -0.07981 -0.09014 -0.10024 -0.11117 -0.12215 -0.13313 -0.14331

3.94 -0.00349 -0.00715 -0.01080 -0.01771 -0.02291 -0.02878 -0.03606 -0.04369 -0.05191 -0.06070 -0.07005 -0.08038 -0.09069 -0.10079 -0.11172 -0.12270 -0.13368 -0.14386

3.96 -0.00359 -0.00727 -0.01092 -0.01797 -0.02307 -0.02894 -0.03622 -0.04385 -0.05207 -0.06086 -0.07021 -0.08054 -0.09085 -0.10095 -0.11188 -0.12286 -0.13384 -0.14402

3.98 -0.00369 -0.00739 -0.01104 -0.01823 -0.02321 -0.02908 -0.03636 -0.04399 -0.05221 -0.06100 -0.07035 -0.08068 -0.09099 -0.10109 -0.11202 -0.12300 -0.13398 -0.14416

4 -0.00379 -0.00751 -0.01116 -0.01851 -0.02369 -0.02956 -0.03684 -0.04447 -0.05269 -0.06148 -0.07083 -0.08116 -0.09147 -0.10157 -0.11250 -0.12348 -0.13446 -0.14464

4.02 -0.00389 -0.00763 -0.01128 -0.01885 -0.02413 -0.03000 -0.03728 -0.04491 -0.05313 -0.06192 -0.07127 -0.08160 -0.09191 -0.10201 -0.11294 -0.12392 -0.13490 -0.14508

4.04 -0.00399 -0.00775 -0.01140 -0.01911 -0.02437 -0.03024 -0.03752 -0.04515 -0.05337 -0.06216 -0.07151 -0.08184 -0.09215 -0.10225 -0.11318 -0.12416 -0.13514 -0.14532

Table with columns for numerical values and a final column for labels (e.g., 0.02548, 0.02483, 0.02392, 0.02438, 0.02589, etc.). The table contains approximately 200 rows and 100 columns of data.

Table containing a grid of numerical values. The grid is organized in rows and columns. The values are small numbers, many with several decimal places. The values are arranged in a regular pattern across the table.

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T I M E H I S T O R Y D A T A

FUNCTION Base Shear X: Base Shear X
 FUNCTION Base Shear Y: Base Shear Y
 FUNCTION Base Moment X: Base Mom X
 FUNCTION Base Moment Y: Base Mom Y

TIME	FUNCTION BaseShear	FUNCTION BaseShear	FUNCTION BaseMoment	FUNCTION BaseMoment
0	0	0	0	0
0.02	0.19455	-0.8075	17.11382	3.76451
0.04	1.38365	-4.83005	102.77115	27.68647
0.06	4.37225	-12.26197	262.63809	90.72221
0.08	8.4641	-22.41719	486.15784	179.00459
0.1	13.44263	-35.11821	774.15704	289.51974
0.12	19.81501	-50.70977	1138.83923	435.65173
0.14	27.93615	-69.26604	1587.65979	628.07196
0.16	36.85053	-89.78209	2106.83887	848.92419
0.18	45.49741	-110.89661	2675.10303	1078.14514
0.2	54.55373	-131.45387	3273.36475	1334.73621
0.22	65.53838	-151.29037	3901.78638	1656.11243
0.24	78.22208	-171.34166	4584.32813	2039.32532
0.26	91.24495	-192.54601	5345.22363	2455.67871
0.28	104.38457	-215.05199	6190.41553	2902.6106
0.3	118.3332	-237.89052	7100.61572	3398.99414
0.32	131.73698	-259.86523	8052.32715	3916.80005
0.34	145.31563	-279.82773	9019.66699	4474.41504
0.36	161.15703	-296.95306	9980.45605	5120.91064
0.38	179.98717	-310.5181	10913.5693	5874.74072
0.4	199.32462	-321.24213	11829.0947	6680.27051
0.42	216.30548	-331.17587	12764.2598	7471.07031
0.44	227.7525	-342.12103	13750.7627	8171.57031
0.46	232.0453	-353.93338	14777.71	8740.03223
0.48	230.5201	-363.5051	15768.3545	9201.27148
0.5	225.11604	-367.81409	16645.9297	9591.32422
0.52	218.13219	-365.66946	17370.0879	9951.49414
0.54	212.03189	-362.29575	18035.5234	10321.2227
0.56	208.99629	-361.58328	18709.6582	10735.7314
0.58	210.57506	-365.27966	19417.2031	11219.8018
0.6	216.27652	-375.26498	20190.793	11754.2266
0.62	223.45389	-393.11008	21062.5254	12273.0479
0.64	231.79115	-419.96225	22058.3145	12765.1377
0.66	242.08488	-454.16507	23148.2031	13248.6152
0.68	254.11539	-491.50745	24252.0723	13722.2803
0.7	268.20541	-530.47296	25348.5605	14196.6191
0.72	284.18356	-569.26111	26411.5586	14672.7344
0.74	300.2952	-605.90125	27412.5508	15117.0176
0.76	313.4808	-636.44183	28280.4609	15467.999
0.78	318.75574	-656.4563	28932.2988	15619.2227
0.8	310.57104	-661.48743	29279.4473	15447.6074
0.82	283.91095	-648.92413	29265.1406	14834.6201
0.84	237.29765	-618.67773	28875.8457	13732.7314
0.86	174.69756	-570.4361	28081.4531	12211.8584
0.88	100.82437	-503.70343	26840.4238	10354.6895
0.9	18.23859	-420.83673	25167.8398	8190.23877
0.92	-72.84345	-327.05423	23137.9121	5690.68311
0.94	-171.32022	-228.09096	20834.3418	2847.69678
0.96	-274.6076	-129.80818	18344.7656	-312.31702
0.98	-379.39627	-35.74519	15712.0918	-3741.637
1	-483.20563	54.64926	12899.4805	-7403.396
1.02	-584.91626	142.97668	9855.34766	-11285.182
1.04	-684.47394	232.21544	6505.49121	-15391.568
1.06	-780.2218	325.41409	2777.39624	-19684.123
1.08	-870.08459	424.27625	-1369.7578	-24108.893
1.1	-951.76099	526.5849	-5890.265	-28602.316
1.12	-1022.9742	629.00623	-10710.543	-33094
1.14	-1081.8418	726.36774	-15711.864	-37515.39
1.16	-1128.1075	815.79132	-20815.924	-41824.45
1.18	-1162.5524	886.83228	-25773.393	-46001.63
1.2	-1181.395	923.6217	-30209.393	-49921.09
1.22	-1179.1484	919.76001	-33933.91	-53402.23
1.24	-1152.3975	882.29993	-37024.17	-56291.49
1.26	-1104.1542	821.57214	-39609.23	-58571.05
1.28	-1048.0284	751.36316	-41876.83	-60458.32
1.3	-998.62628	684.92029	-44004.02	-62198.09

1.32	-971.45642	634.41614	-46152.94	-64068.54
1.34	-979.99841	610.16766	-48462.94	-66322.48
1.36	-1029.4451	620.37317	-51055.39	-69050.04
1.38	-1118.7769	671.73383	-54048.87	-72226.48
1.4	-1245.3289	770.32745	-57576.65	-75814.39
1.42	-1403.6908	919.5011	-61744.38	-79737.9
1.44	-1588.3043	1120.11768	-66633.26	-83937.99
1.46	-1797.6787	1362.13013	-72114.03	-88472.46
1.48	-2030.2859	1627.86731	-77912.88	-93417.38
1.5	-2274.0552	1900.08435	-83782.16	-98616.43
1.52	-2516.8733	2167.27539	-89596.09	-103908.42
1.54	-2745.8362	2421.1499	-95291.25	-109105.04
1.56	-2948.6494	2653.49268	-100793.21	-114018.38
1.58	-3114.3811	2860.8894	-106112.54	-118467.73
1.6	-3234.329	3044.11865	-111329.31	-122294.62
1.62	-3300.943	3202.19849	-116467.3	-125339.7
1.64	-3306.207	3305.5271	-120918.34	-127425.7
1.66	-3242.161	3306.59229	-123654.23	-128357.84
1.68	-3105.99	3189.16821	-124256.14	-127996.91
1.7	-2899.012	2963.06201	-122803.46	-126242.18
1.72	-2625.4443	2643.74634	-119449.15	-123024.51
1.74	-2295.1733	2253.70532	-114457.8	-118374.13
1.76	-1926.9025	1814.79382	-108054.05	-112508.34
1.78	-1537.1327	1344.80103	-100371.87	-105594.75
1.8	-1139.948	859.58246	-91511.77	-97754.88
1.82	-746.37091	373.02979	-81550.91	-89058.11
1.84	-372.88586	-97.19641	-70667.72	-79719.37
1.86	-40.30595	-532.25092	-59098.2	-70085.39
1.88	226.39975	-915.88544	-47064.68	-60644.72
1.9	396.66312	-1233.6937	-34798.04	-52072.28
1.92	461.87979	-1475.615	-22512.945	-44612.25
1.94	430.22238	-1635.4576	-10415.827	-38194.26
1.96	310.91779	-1710.4648	1299.83179	-32784.29
1.98	119.12885	-1700.4952	12434.7627	-28263.635
2	-128.68283	-1608.0757	22793.8008	-24522.848
2.02	-415.30075	-1436.6945	32156.434	-21460.109
2.04	-723.46228	-1191.6112	40302.238	-18985.049
2.06	-1036.5457	-877.59186	46971.469	-17019.615
2.08	-1338.7627	-502.08395	51941.656	-15492.907
2.1	-1615.1573	-74.03198	55012.18	-14328.821
2.12	-1850.2032	395.06799	56036.098	-13404.38
2.14	-2029.5192	890.4082	54948.98	-12579.965
2.16	-2133.198	1380.01416	52073.109	-11549.933
2.18	-2139.3755	1814.22351	48151.813	-9914.554
2.2	-2031.0598	2092.58057	45094.863	-7355.26
2.22	-1816.3535	2173.16162	43703.539	-4000.838
2.24	-1514.8022	2075.23706	43609.031	-122.32661
2.26	-1151.0193	1819.11316	44537.922	3948.00586
2.28	-754.96301	1445.10632	45891.898	7810.31934
2.3	-358.18539	993.15656	47155.742	11046.9229
2.32	17.90576	503.83527	47841.988	13473.3418
2.34	364.6752	10.42896	47634.141	15179.6172
2.36	676.88684	-455.48062	46254.934	16313.8779
2.38	954.35181	-867.16827	43512.895	17111.8496
2.4	1200.10498	-1202.4709	39281.406	17852.7461
2.42	1419.57703	-1447.6843	33568.82	18836.0762
2.44	1619.61707	-1643.556	27497.5156	20320.6953
2.46	1801.37646	-1862.9564	22856.2793	22382.1152
2.48	1957.39417	-2095.2422	19654.0293	24942.5957
2.5	2078.52589	-2327.4675	17836.0254	27856.1836
2.52	2152.03589	-2533.3159	17039.623	30870.0957
2.54	2166.0061	-2685.5486	16841.8262	33709.832
2.56	2110.45532	-2760.7615	16846.1387	36096.875
2.58	1989.42627	-2778.6035	17503.2305	37990.395
2.6	1819.63379	-2770.3013	19452.4668	39589.711
2.62	1615.97009	-2733.1406	22572.2344	41052.816
2.64	1393.90039	-2663.1819	26673.8398	42532.918
2.66	1168.83313	-2554.1624	31477.8359	44175.164
2.68	955.56085	-2399.6206	36658.633	46112.023
2.7	762.94818	-2195.4866	41904.25	48348.926
2.72	586.69312	-1939.5245	46912.457	50604.309
2.74	420.92914	-1633.3927	51428.465	52572.793
2.76	263.3779	-1282.6989	55247.898	54042.883
2.78	125.57296	-898.50391	58248.82	55132.313
2.8	21.76787	-498.05386	60428.438	56042.059
2.82	-29.1767	-113.02573	62093.328	57100.648
2.84	-9.0909	220.43294	63672.594	58660.805
2.86	96.43459	468.39496	65599.102	61042.488
2.88	291.1077	610.15625	68098.68	64387.922
2.9	563.87537	640.36298	71158.383	68568.195
2.92	897.70746	559.58618	74723.594	73366.969
2.94	1270.74756	376.77768	78644.008	78497.414
2.96	1660.03979	106.46406	82724.906	83671.133
2.98	2051.57422	-232.19058	86729.578	88813.828
3	2436.20947	-617.54199	90416.977	93961.375
3.02	2804.96191	-1030.8668	93647.484	99139.992
3.04	3147.91455	-1471.7913	96702.922	104320.523
3.06	3453.12061	-1928.5411	99646.773	109410.867

3.08	3708.24634	-2372.918	102202.055	114289.773
3.1	3902.7124	-2778.7166	104124.336	118832.93
3.12	4029.73633	-3117.6309	105095.641	122957.766
3.14	4088.17017	-3365.449	104838.406	126657.734
3.16	4079.72754	-3501.235	103086.555	129940.414
3.18	4007.54956	-3510.369	99640.688	132794.781
3.2	3868.5752	-3391.758	94522.133	135013.797
3.22	3660.87061	-3174.726	88331.508	136348.969
3.24	3387.52759	-2871.3794	81241.82	136643.281
3.26	3065.63013	-2484.7563	73169.93	136036.922
3.28	2716.4165	-2025.4086	64143.973	134742.078
3.3	2361.58984	-1497.7698	54023.324	132984.672
3.32	2022.70996	-914.42273	42810.895	130992.57
3.34	1720.85901	-298.41107	30713.1582	128999.523
3.36	1475.95837	262.24106	19328.6523	127196.063
3.38	1292.24341	730.34613	9227.84082	125505.969
3.4	1166.1593	1109.776	166.612	123760.43
3.42	1095.27917	1406.17407	-8083.955	121867.477
3.44	1081.17493	1636.68347	-15950.45	119885.297
3.46	1124.63525	1810.08203	-23636.979	117895.867
3.48	1229.36902	1890.68408	-30355.959	116057.531
3.5	1388.11169	1869.66797	-35825.84	114346.383
3.52	1576.65198	1767.28906	-40317.23	112412.695
3.54	1768.66919	1601.69714	-44012.92	109877.664
3.56	1938.4115	1398.93921	-47236.32	106387.719
3.58	2064.31494	1183.06287	-50258.9	101674.063
3.6	2134.91577	976.01782	-53317.26	95676.164
3.62	2144.94507	787.89087	-56413.48	88437.531
3.64	2093.3252	614.87061	-59274.84	80054.43
3.66	1980.24878	465.97165	-61923.94	70630.078
3.68	1810.09216	345.77286	-64318.73	60326.191
3.7	1589.31921	259.60388	-66464.74	49321.539
3.72	1326.0863	210.86385	-68360.45	37803.949
3.74	1029.573	203.94853	-70061.02	25961.8906
3.76	709.90131	240.36893	-71596.63	13984.4668
3.78	377.62128	315.73633	-72906.91	2052.7793
3.8	42.82593	414.14688	-73715.46	-9679.148
3.82	-291.71918	521.47113	-73798.91	-21225.146
3.84	-627.50275	629.95276	-73080.68	-32691.26
3.86	-967.05414	744.6001	-71767.13	-44196.84
3.88	-1305.0764	870.22479	-70079.48	-55682.39
3.9	-1630.322	1014.65686	-68321.66	-66945.29
3.92	-1933.7307	1185.20557	-66799.46	-77823.1
3.94	-2210.5806	1390.22412	-65853.42	-88237.55
3.96	-2468.6807	1635.87769	-65783.98	-98383.96
3.98	-2715.3735	1916.12463	-66647.86	-108447.43
4	-2944.8647	2190.63965	-67787.13	-118334.27
4.02	-3143.0408	2434.02563	-68855.16	-127736.21
4.04	-3302.294	2640.67065	-69897.38	-136459.53
4.06	-3420.209	2802.88086	-70881.58	-144412.2
4.08	-3495.068	2905.52686	-71581.07	-151506.33
4.1	-3523.183	2940.91699	-71886.94	-157585.03
4.12	-3505.241	2912.84131	-71886.8	-162564.08
4.14	-3455.368	2826.771	-71649.96	-166650.56
4.16	-3415.506	2696.17749	-71354.18	-170678.64
4.18	-3388.052	2530.68359	-71096.93	-174597.92
4.2	-3372.833	2343.17017	-71021.84	-178311.63
4.22	-3362.578	2145.39185	-71236.51	-181577.05
4.24	-3346.759	1951.41443	-71890.2	-184087.31
4.26	-3313.589	1774.11389	-73105.9	-185515.84
4.28	-3254.168	1626.78003	-75019.09	-185605.41
4.3	-3160.9592	1515.29126	-77619.08	-184137.02
4.32	-3034.626	1446.73975	-80931.86	-181077.19
4.34	-2881.1104	1419.68762	-84818.84	-176521.52
4.36	-2705.3411	1411.79077	-88716.85	-170565.06
4.38	-2511.9241	1372.73022	-91473.01	-163326.8
4.4	-2308.7371	1312.672	-93215.87	-154959.14
4.42	-2096.6658	1247.44226	-94203.99	-145463.34
4.44	-1872.5378	1182.14148	-94481.3	-134769.78
4.46	-1641.8438	1102.91187	-93691.43	-123034.98
4.48	-1406.7305	994.8811	-91465.59	-110354.27
4.5	-1172.6854	846.3031	-87500.05	-96911.39
4.52	-950.78577	671.82343	-82050.49	-83011.56
4.54	-775.06641	490.76187	-75462.79	-69503.53
4.56	-650.55804	322.55057	-68129.2	-56607.5
4.58	-576.16089	183.02962	-60397.98	-44437.52
4.6	-548.49127	89.23475	-52678.73	-33081.26
4.62	-557.80627	53.05574	-45315.89	-22506.295
4.64	-596.85205	85.51773	-38675.19	-12750.004
4.66	-664.3634	192.18004	-33043.39	-3997.237
4.68	-744.56512	359.23486	-28345.963	3882.06226
4.7	-816.5614	526.15057	-23537.383	11107.5244
4.72	-862.23071	664.71436	-18252.307	17888.0332
4.74	-866.41425	771.15057	-12625.442	24421.2988
4.76	-815.20087	843.25696	-6800.552	30922.1934
4.78	-698.97424	888.70349	-1102.0851	37566.961
4.8	-510.19998	917.96204	4112.29199	44541.691
4.82	-248.58345	944.70081	8444.76758	51926.359

4.84	77.61997	981.03326	11554.9375	59657.547
4.86	459.72119	996.11578	14036.6641	67671.305
4.88	890.11359	920.64252	17342.666	75934.234
4.9	1353.73096	754.61615	21513.8848	84331.617
4.92	1835.85901	511.97775	26347.9941	92787.375
4.94	2315.74292	214.60246	31523.2695	101100.961
4.96	2773.04468	-114.40435	36722.438	109074.844
4.98	3193.32104	-479.98535	42242.711	116601.922
5	3567.24634	-888.66138	48431.902	123660.969
5.02	3885.51245	-1319.5133	55068.629	130217.984
5.04	4137.17725	-1755.3921	62016.367	136155.391
5.06	4309.20752	-2174.5085	69032.93	141262.234
5.08	4393.0791	-2559.0168	75935.727	145371.953
5.1	4389.30518	-2893.1323	82547.859	148465.688
5.12	4309.37451	-3167.889	88790.172	150716.172
5.14	4175.50244	-3389.116	94848.664	152484.859
5.16	4007.9519	-3576.551	101171.328	154046.781
5.18	3804.75684	-3736.345	107906.438	155160.813
5.2	3565.86865	-3870.06	115076.117	155615.406
5.22	3308.14966	-3978.999	122657.656	155573.797
5.24	3051.47412	-4056.509	130431.602	155276.125
5.26	2813.3689	-4096.504	138166.891	154922.203
5.28	2609.90503	-4092.705	145602.359	154703.266
5.3	2453.12671	-4070.057	153122.547	154725.828
5.32	2343.83618	-4049.813	161033.141	154882.406
5.34	2267.55493	-4018.334	168904.875	154785.047
5.36	2210.57007	-3969.458	176459.891	154089.172
5.38	2167.323	-3890.18	183258.656	152669.547
5.4	2131.36987	-3771.309	188931.969	150402.078
5.42	2097.83936	-3603.692	193097.047	147219.609
5.44	2057.1106	-3382.923	195462.938	142959.781
5.46	1996.48096	-3113.9302	195929.688	137392.734
5.48	1910.06042	-2819.23	194764.375	130433.695
5.5	1798.81775	-2523.6108	192288.828	122154.125
5.52	1666.97131	-2247.1399	188747.422	112705.172
5.54	1521.93359	-1997.3081	184149.719	102324.102
5.56	1371.79736	-1779.7245	178505.953	91270.031
5.58	1223.71924	-1594.8926	171763.484	79791.805
5.6	1083.88525	-1441.3048	163873.797	68126.055
5.62	957.52515	-1313.8021	154756.734	56499.723
5.64	850.43036	-1205.502	144337.297	45163.758
5.66	758.22656	-1110.8431	132615.391	34145.004
5.68	668.84064	-1040.3435	119976.133	23284.3223
5.7	572.98242	-1006.5807	106884.594	12480.5088
5.72	459.42072	-1010.8681	93605.891	1587.64917
5.74	319.75943	-1038.2941	80088.781	-9478.061
5.76	151.00641	-1070.3101	66219.414	-20694.713
5.78	-44.88346	-1089.2256	51903.996	-31950.58
5.8	-266.02097	-1086.5302	37238.566	-43165.2
5.82	-519.6828	-1055.9219	22359.7559	-54491.94
5.84	-811.53754	-987.04718	7293.82324	-66070.33
5.86	-1133.8734	-869.91364	-7968.399	-77761
5.88	-1477.9443	-700.36938	-23351.391	-89427.23
5.9	-1830.9691	-476.20807	-38784.8	-100857.38
5.92	-2179.2419	-195.79362	-54232.96	-111827.38
5.94	-2511.7197	140.52289	-69662.99	-122176.22
5.96	-2828.0105	533.12659	-85095.87	-131981.05
5.98	-3129.0776	980.20422	-100550.76	-141346.36
6	-3410.493	1472.78198	-115941.52	-150252.61
6.02	-3661.08	1986.92456	-130902.8	-158527.47
6.04	-3870.225	2495.14746	-145013	-165996.94
6.06	-4026.657	2972.55371	-157910.97	-172446.91
6.08	-4123.009	3411.2146	-169587.39	-177710.48
6.1	-4155.894	3807.427	-180107.73	-181678.28
6.12	-4129.05	4155.00146	-189462.19	-184376.59
6.14	-4051.208	4441.32813	-197477.77	-185926.25
6.16	-3933.929	4664.52979	-204180.25	-186484.92
6.18	-3790.719	4829.23047	-209704.34	-186238.2
6.2	-3632.458	4942.39697	-214211.13	-185306.97
6.22	-3460.795	5012.25391	-217873.97	-183603.38
6.24	-3275.479	5044.30615	-220791.66	-181004.02
6.26	-3074.1658	5034.01367	-222834.02	-177353.66
6.28	-2860.4468	4979.79004	-223911.52	-172638.8
6.3	-2649.4902	4886.37793	-224044.14	-167118.72
6.32	-2455.958	4763.38574	-223344.77	-161059.23
6.34	-2292.946	4619.2251	-221896.64	-154720.58
6.36	-2167.5464	4457.54346	-219685.61	-148264.16
6.38	-2077.4358	4278.62256	-216635.17	-141674.58
6.4	-2017.5256	4085.47681	-212732.55	-134903.17
6.42	-1979.5491	3880.62207	-207962.53	-127856.74
6.44	-1953.1929	3666.47998	-202317.03	-120416.8
6.46	-1927.5724	3444.12549	-195768.86	-112467.05
6.48	-1892.3663	3209.70728	-188194.66	-103914.73
6.5	-1841.1104	2957.43481	-179434.16	-94756.6
6.52	-1768.8761	2686.62061	-169440.61	-85014.63
6.54	-1671.7229	2404.09692	-158334.25	-74717.05
6.56	-1543.6954	2115.11572	-146213.89	-63833.27
6.58	-1383.9696	1825.9679	-133209.27	-52430.86

6.6	-1196.02	1543.83289	-119481.41	-40655.6
6.62	-984.3468	1277.64343	-105246.98	-28656.783
6.64	-755.51898	1035.47034	-90725.2	-16614.869
6.66	-515.53174	814.27051	-75922.33	-4692.333
6.68	-271.17197	614.60748	-60942.06	6945.02881
6.7	-23.76576	437.09918	-45913.94	18265.332
6.72	230.84634	277.8967	-30894.648	29367.4219
6.74	496.17987	132.7746	-15945.811	40346.047
6.76	768.72595	-1.63883	-1150.437	51147.238
6.78	1041.73352	-127.42667	13378.6924	61651.953
6.8	1309.56799	-247.11989	27536.2344	71770.391
6.82	1564.1676	-361.91379	41193.141	81359.133
6.84	1798.07397	-472.53146	54216.043	90285.289
6.86	2004.151	-576.34668	66408.797	98418.813
6.88	2178.44482	-679.93628	77780.289	105683.961
6.9	2321.15918	-805.75299	88693.805	112074.703
6.92	2430.48169	-971.07458	99435.023	117531.727
6.94	2511.06006	-1177.1212	109979.125	122145.359
6.96	2571.41138	-1420.1187	120229.102	126090.438
6.98	2623.47876	-1693.5046	130060.836	129618.969
7	2681.40601	-1996.0525	139494.516	133031.484
7.02	2750.02344	-2328.5142	148631.375	136422.625
7.04	2822.95776	-2687.0154	157512.281	139643.969
7.06	2890.10034	-3057.7593	165992.875	142475.547
7.08	2935.20752	-3420.006	173798.984	144563.203
7.1	2942.54199	-3753.063	180657.875	145557.188
7.12	2901.61743	-4037.854	186316	145213
7.14	2813.93042	-4259.861	190585.609	143540.344
7.16	2688.44238	-4412.038	193403.359	140700.453
7.18	2533.00684	-4499.508	194935.281	136811.531
7.2	2348.1582	-4529.736	195374.359	131818.844
7.22	2138.55713	-4506.254	194799.719	125762.68
7.24	1918.17749	-4431.811	193240.703	118898.82
7.26	1701.7959	-4314.573	190819.094	111506.641
7.28	1502.96228	-4160.628	187595.594	103856.18
7.3	1333.6189	-3975.106	183597.922	96204.539
7.32	1202.37793	-3762.682	178836.703	88760.766
7.34	1113.00806	-3527.781	173315.063	81653.523
7.36	1061.47974	-3273.759	167017.078	74863.586
7.38	1039.71289	-3007.4077	160004.297	68301.148
7.4	1038.66064	-2738.0693	152399.234	61871.066
7.42	1047.53809	-2471.3608	144257.234	55453.949
7.44	1054.47205	-2204.4077	135466.547	48917.625
7.46	1045.39539	-1932.126	125882.195	42078.484
7.48	1006.81384	-1655.1694	115492.031	34749.238
7.5	930.19635	-1382.5009	104469.82	26829.3848
7.52	817.46515	-1121.0504	92953.836	18435.4668
7.54	673.10724	-875.80286	81057.813	9721.24805
7.56	502.29947	-648.04785	68836.328	837.789
7.58	304.22714	-435.61069	56294.426	-8218.207
7.6	78.20515	-235.46057	43435.789	-17467.518
7.62	-175.65869	-42.01133	30222.8242	-26931.625
7.64	-451.49127	149.58795	16638.6348	-36520.43
7.66	-739.66156	343.60675	2681.68945	-46073.51
7.68	-1028.1443	540.10217	-11558.599	-55388.4
7.7	-1303.3195	735.55627	-25915.83	-64231.28
7.72	-1552.3666	929.0929	-40277.53	-72379.01
7.74	-1767.7833	1125.66956	-54651.54	-79713.29
7.76	-1949.3888	1329.50366	-69028.3	-86268.96
7.78	-2097.4924	1533.91858	-83171.71	-92086.29
7.8	-2214.3904	1737.30518	-96957.42	-97231.44
7.82	-2302.9744	1932.59863	-110149.88	-101774.73
7.84	-2367.8938	2113.03394	-122522.1	-105813.83
7.86	-2414.6089	2277.82031	-133977.08	-109449.89
7.88	-2446.6038	2426.07617	-144421.81	-112731.8
7.9	-2464.158	2559.27954	-153822.03	-115627.73
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7.96	-2443.8933	2893.01904	-175736.45	-121857.33
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8	-2425.7693	3128.01758	-186189.78	-124742.14
8.02	-2430.5317	3253.57446	-190251.81	-126040.19
8.04	-2446.0625	3368.91211	-193247.53	-127264.61
8.06	-2467.9011	3468.45898	-195108.47	-128311.95
8.08	-2491.2986	3551.20068	-195870.97	-129076.45
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8.12	-2540.6958	3652.92212	-194058.06	-129759.45
8.14	-2569.8804	3666.76831	-191495.3	-129790.57
8.16	-2596.5891	3651.92358	-187828.88	-129527.44
8.18	-2614.2708	3605.18701	-183052.09	-128852.52
8.2	-2616.6313	3523.51025	-177154.44	-127653
8.22	-2597.6809	3403.96802	-170118.45	-125818.52
8.24	-2561.813	3248.50122	-162011.23	-123465.57
8.26	-2514.0862	3062.45264	-152962.28	-120719.3
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8.32	-2272.6567	2396.48193	-121912.98	-109527.74
8.34	-2153.3657	2163.62012	-110833.61	-104657.53

8.36	-2021.2134	1933.96045	-99591.2	-99347.52
8.38	-1885.592	1710.65991	-88267.36	-93798.3
8.4	-1755.5784	1496.0697	-76933.93	-88207
8.42	-1640.1746	1290.46814	-65625.76	-82777.92
8.44	-1547.433	1093.65173	-54374.83	-77704.84
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9.32	4071.00635	-1925.1779	84507.813	187737.391
9.34	3955.77466	-1574.729	68568.617	185157.906
9.36	3825.15161	-1244.8606	53100.75	182042.391
9.38	3679.01099	-950.93152	38449.641	178322.406
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9.48	2664.42896	22.78997	-21574.877	147644.031
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9.94	-2141.5913	3707.55371	-204269.52	-143778.34
9.96	-2257.8674	3602.47412	-203178.33	-152368.78
9.98	-2397.3997	3487.14307	-201046.13	-160490.11
10	-2569.8235	3365.70288	-197904.67	-168342.56
	4393.0791	5044.30615	218502.344	191555.5
	-4155.894	-4529.736	-224044.14	-186484.92

Program SAP2000 Nonlinear Version 7.42 File:sap variasi 50%.OUT
Page 4

M O D A L P E R I O D S A N D F R E Q U E N C I E S

MODE	PERIOD (TIME)	FREQUENCY (CYC/TIME)	FREQUENCY (RAD/TIME)	EIGENVALUE (RAD/TIME)**2
1	1.330961	0.751337	4.720789	22.285853
2	1.330961	0.751337	4.720789	22.285853
3	0.870565	1.148679	7.217361	52.090297
4	0.378645	2.640994	16.593852	275.355934
5	0.378645	2.640994	16.593853	275.355941
6	0.342279	2.921590	18.356889	336.975373
7	0.230061	4.346677	27.310980	745.889608

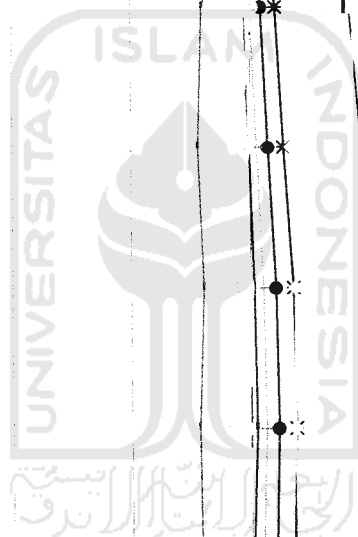
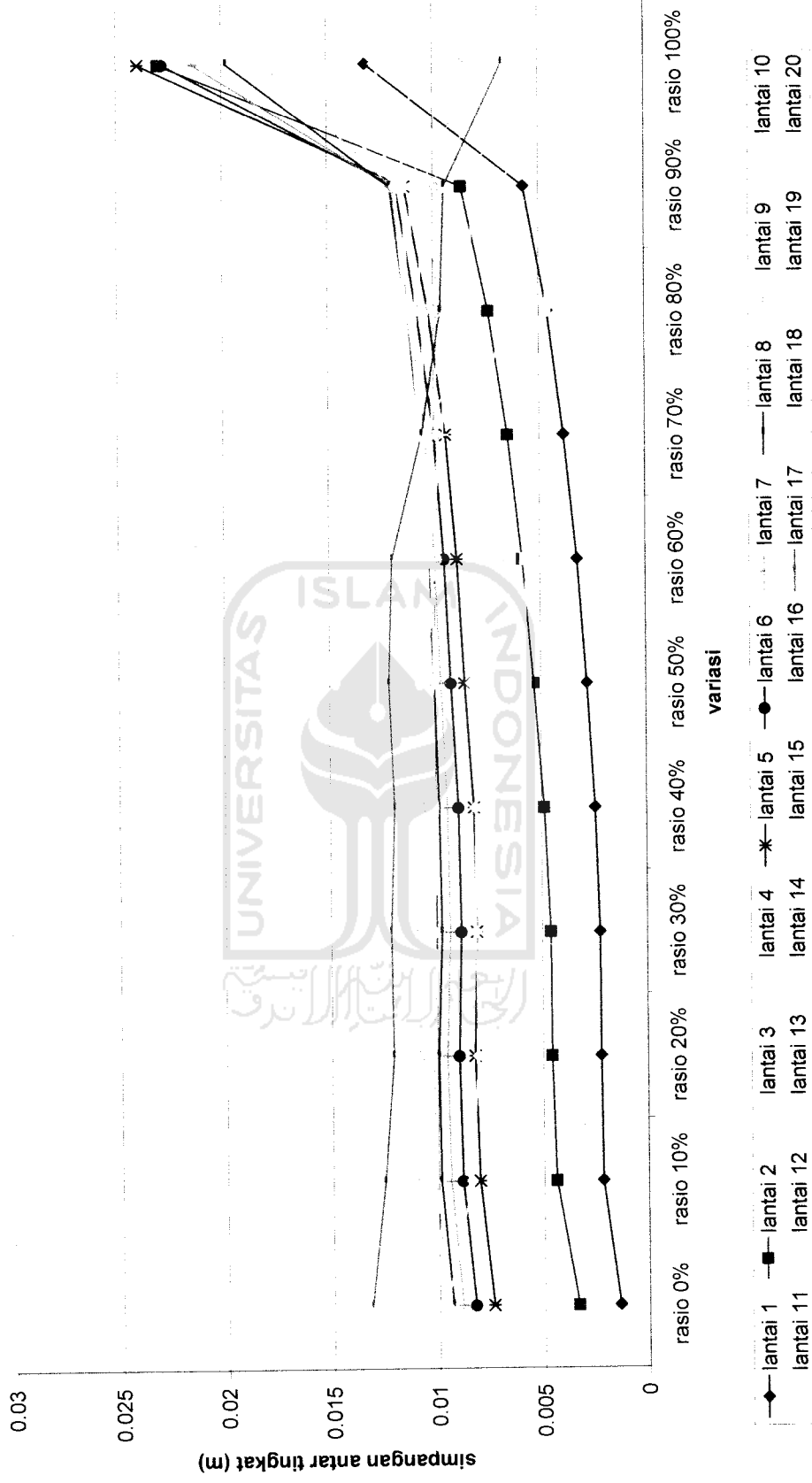


LAMPIRAN III

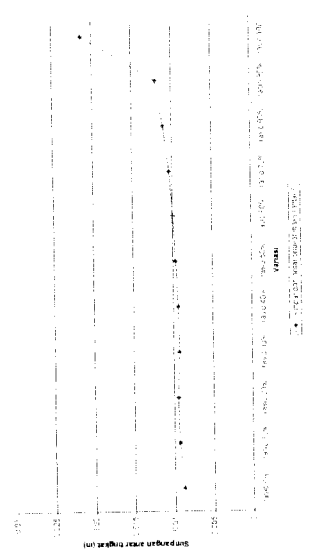
Grafik simpangan antar tingkat maks tiap variasi



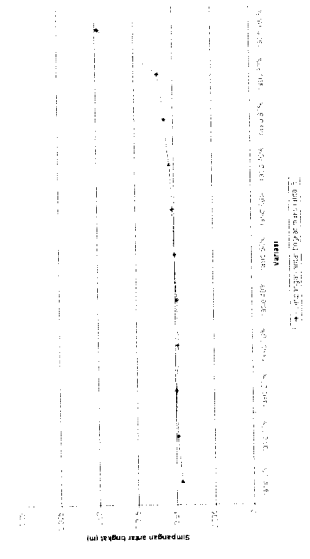
Simpangan Antar Tingkat Maks Arah X Tiap Lantai



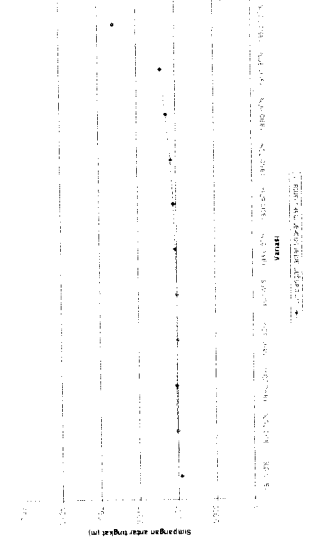
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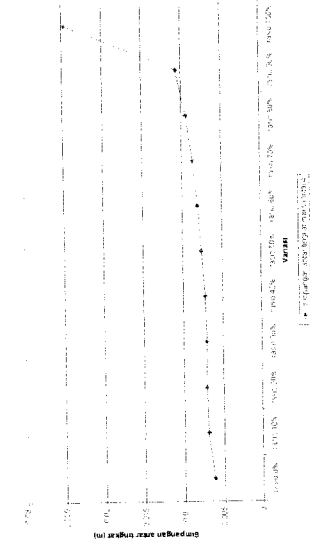
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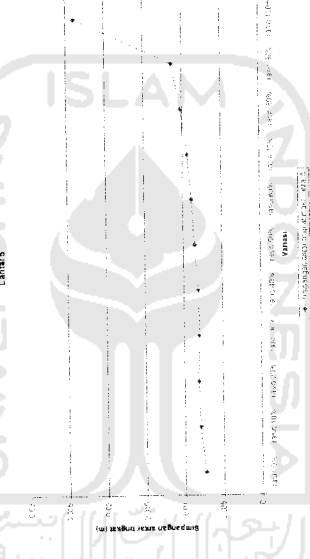
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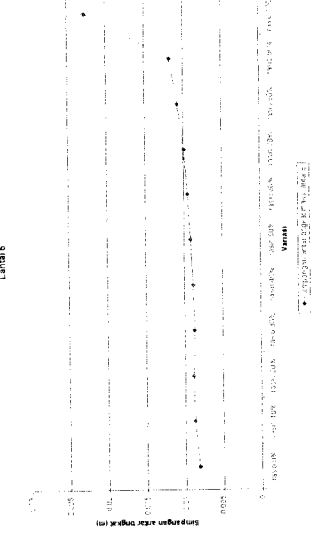
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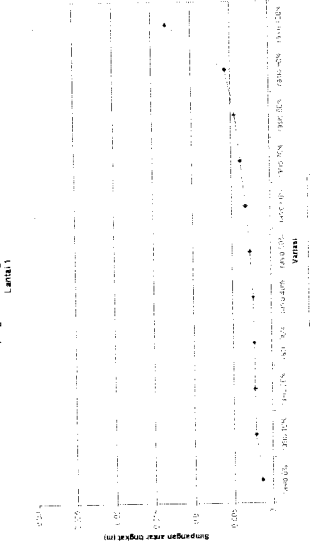
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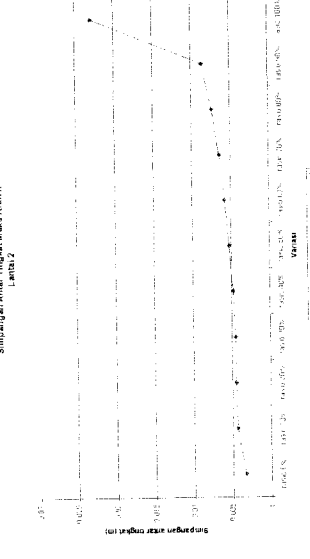
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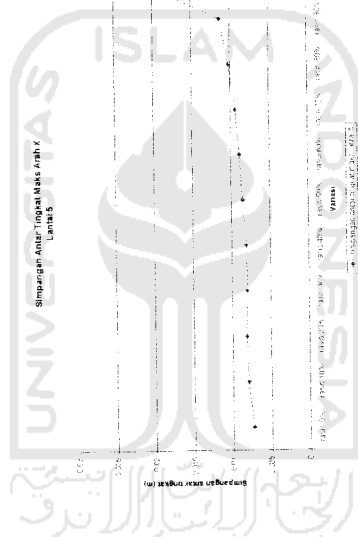
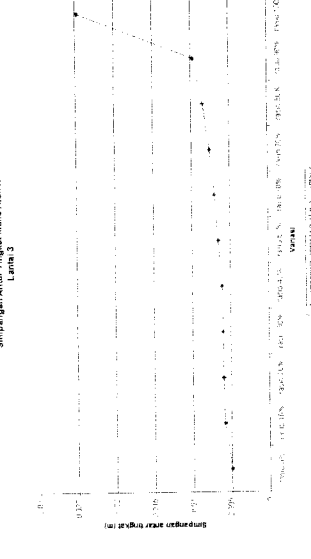
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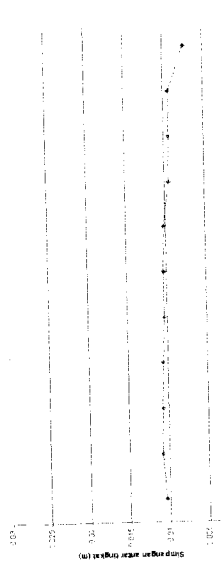
Simpangan Antar-Tingkat Maks Amah X
Lantai 2



Simpangan Antar-Tingkat Maks Amah X
Lantai 3

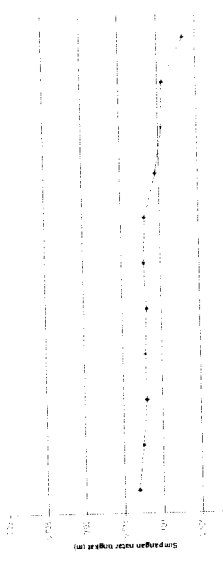


Simpangan Antar-Tingkat Maksimum
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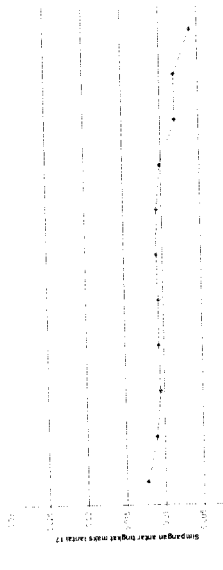
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Simpangan Antar-Tingkat Maksimum
Lantai 17



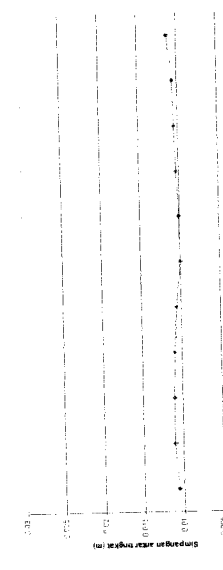
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Simpangan Antar-Tingkat Maksimum
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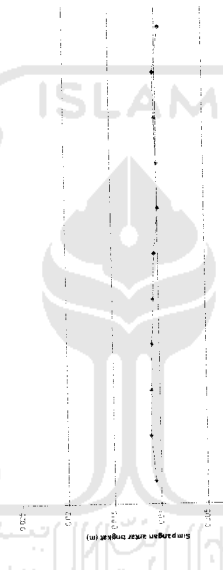
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Simpangan Antar-Tingkat Maksimum
Lantai 13



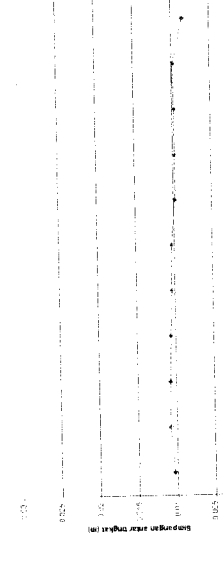
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Simpangan Antar-Tingkat Maksimum
Lantai 14



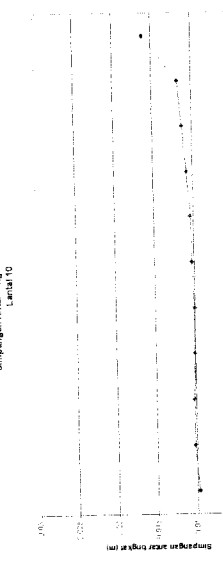
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Simpangan Antar-Tingkat Maksimum
Lantai 15



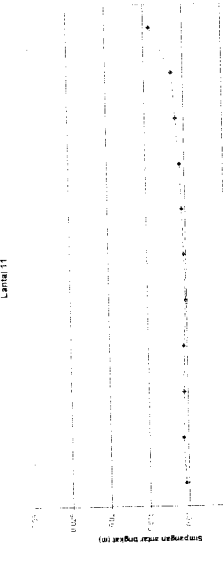
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Simpangan Antar-Tingkat Maksimum
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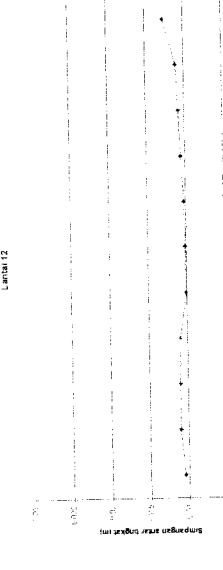
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Simpangan Antar-Tingkat Maksimum
Lantai 11

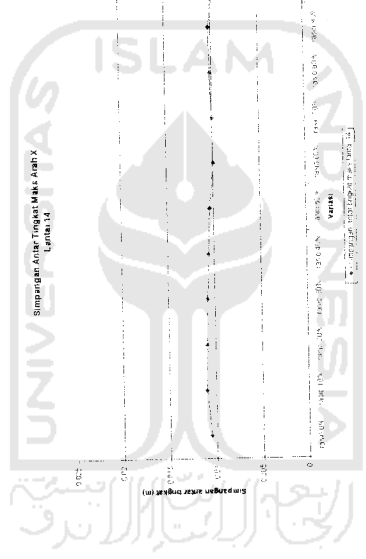


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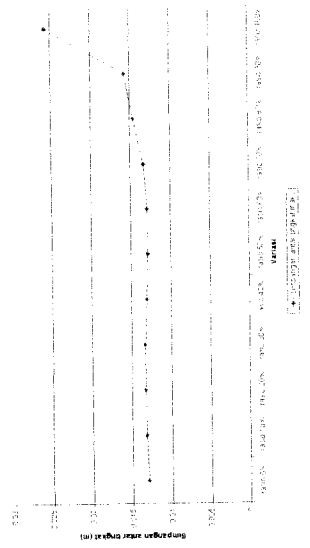
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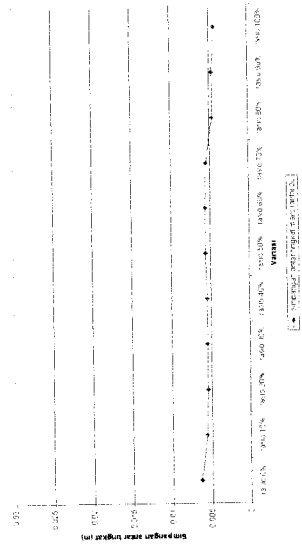
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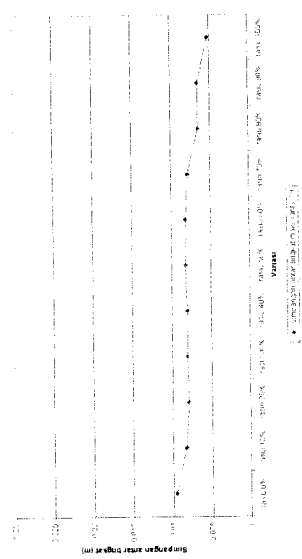
Simpangan Antar-Tingkat Masi Anah Y
Masi Tab Anah



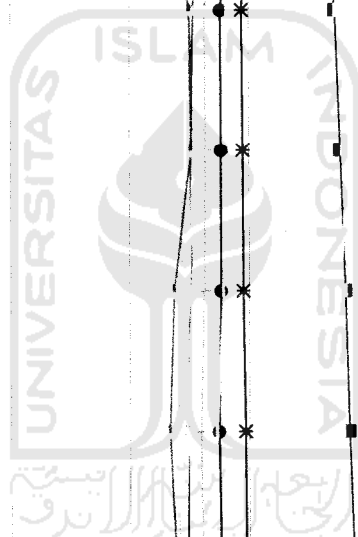
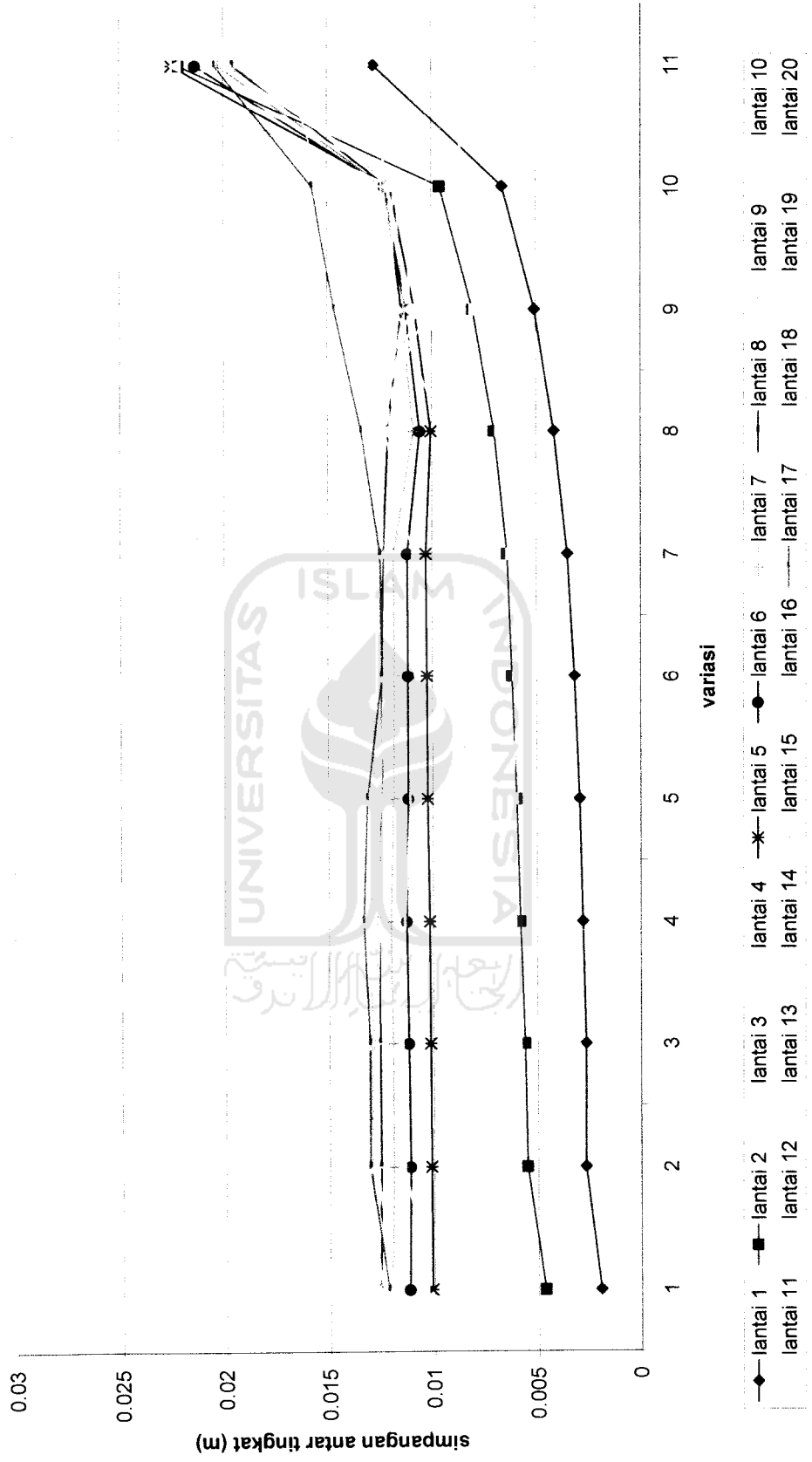
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Lantai 20



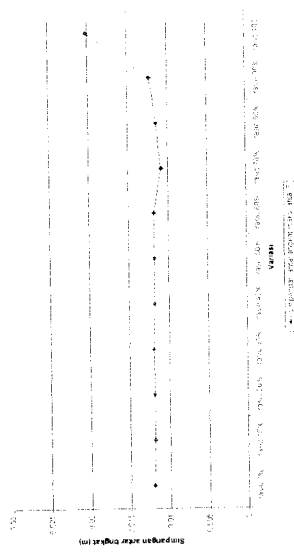
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Lantai 19



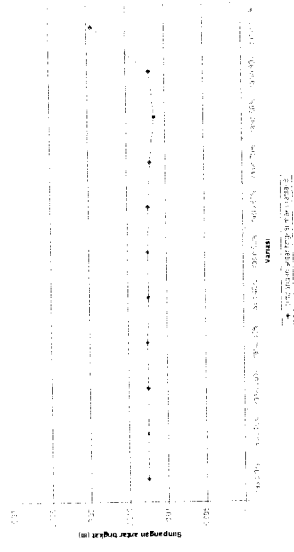
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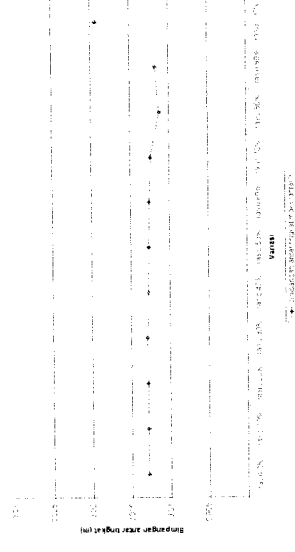
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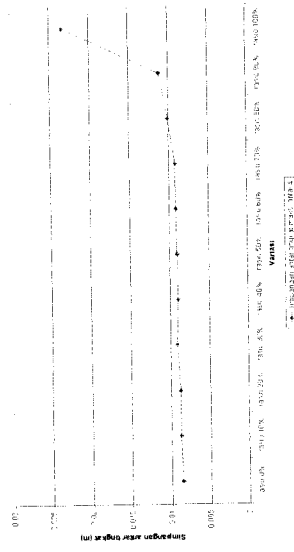
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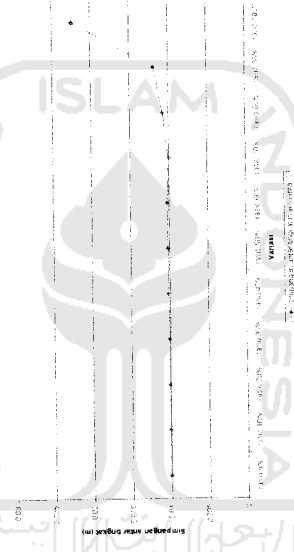
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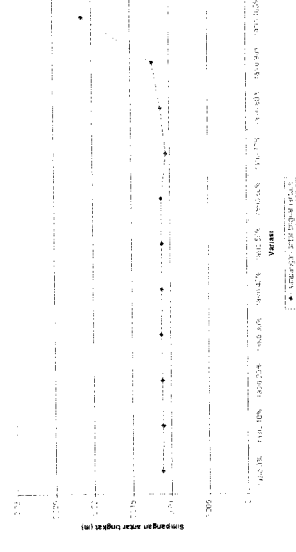
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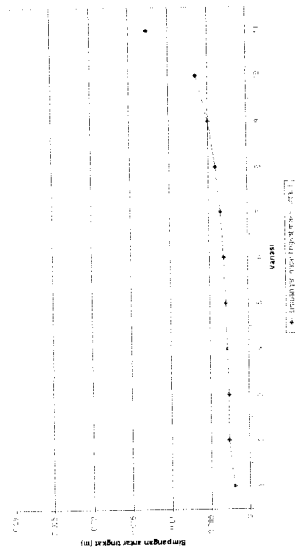
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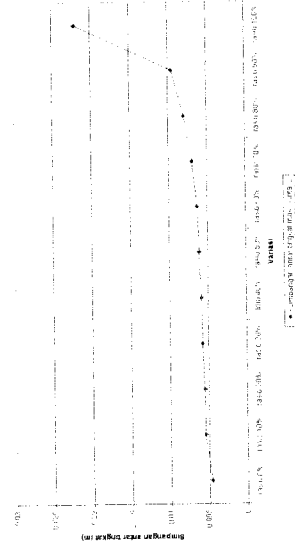
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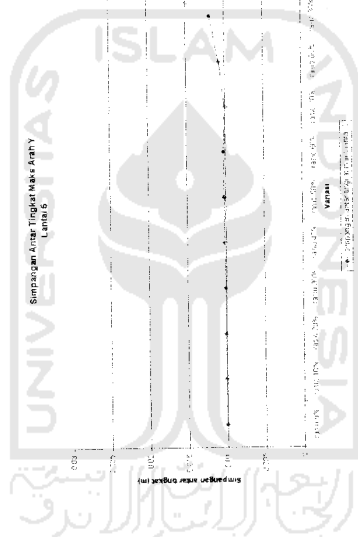
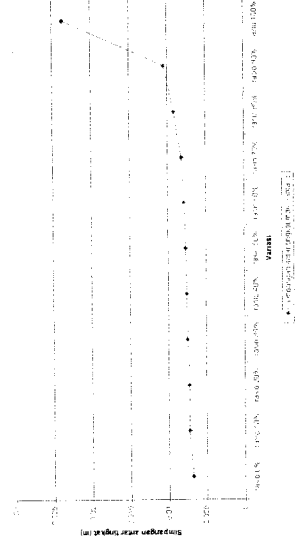
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Lantai 1



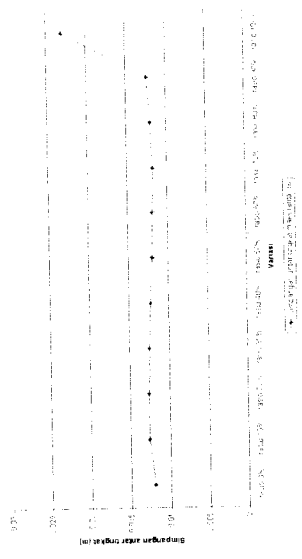
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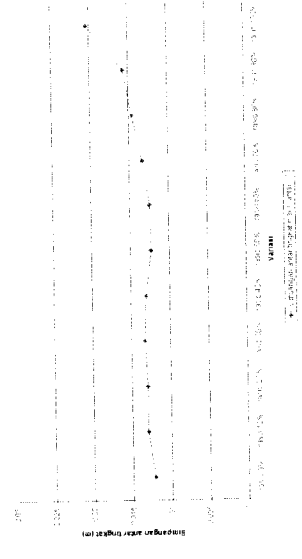
Simpangan Antar-Tingkat Maks. Anah Y
Lantai 3



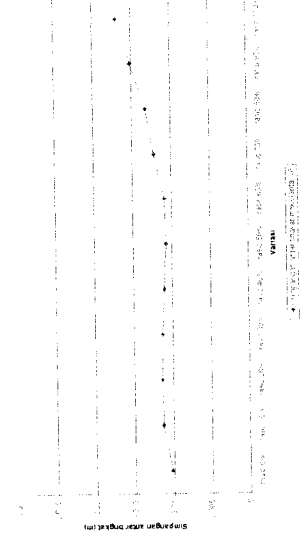
Simpangan Antar-Tingkat Maksimum
Lantai 16



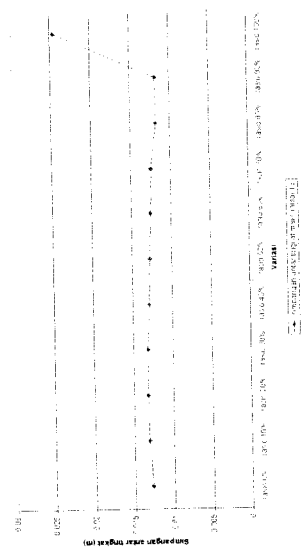
Simpangan Antar-Tingkat Maksimum
Lantai 17



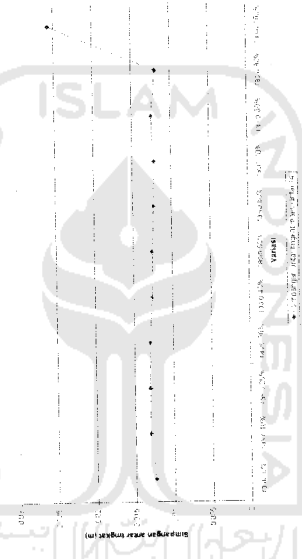
Simpangan Antar-Tingkat Maksimum
Lantai 19



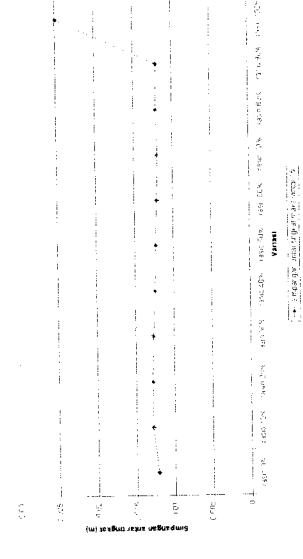
Simpangan Antar-Tingkat Maksimum
Lantai 13



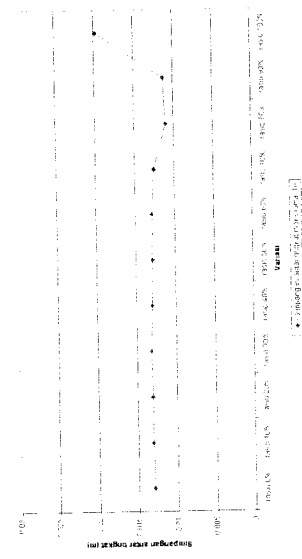
Simpangan Antar-Tingkat Maksimum
Lantai 14



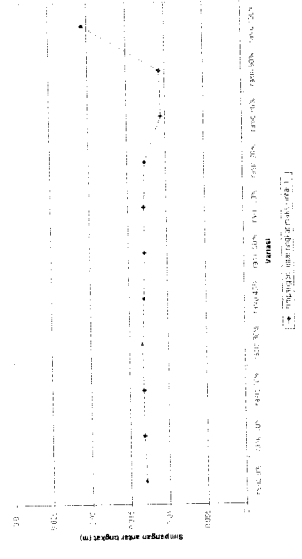
Simpangan Antar-Tingkat Maksimum
Lantai 15



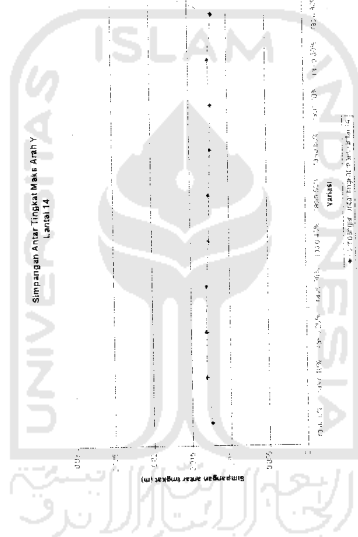
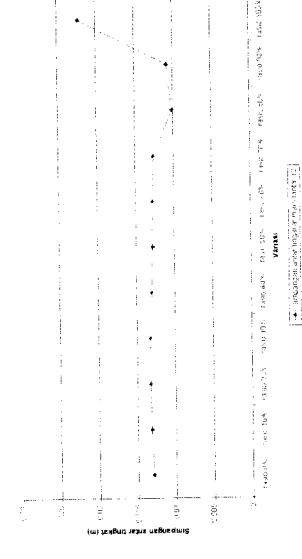
Simpangan Antar-Tingkat Maksimum
Lantai 10



Simpangan Antar-Tingkat Maksimum
Lantai 11

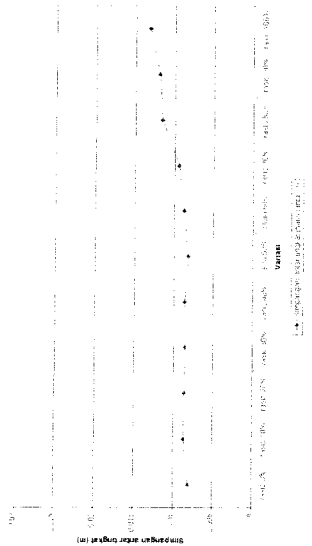


Simpangan Antar-Tingkat Maksimum
Lantai 12

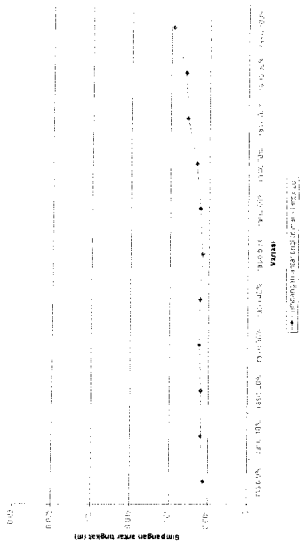


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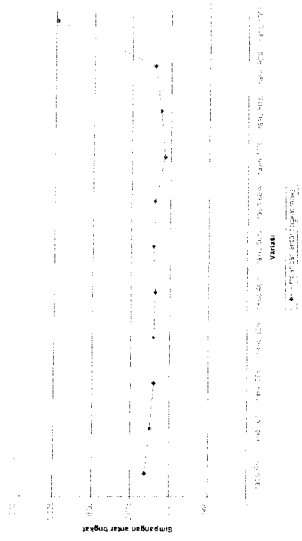
Simpangan Antar-Tingkat Maki Aah'y
Lantai 19



Simpangan Antar-Tingkat Maki Aah'y
Lantai 20



Simpangan Antar-Tingkat Maki Aah'y
Maki Tap Vihai



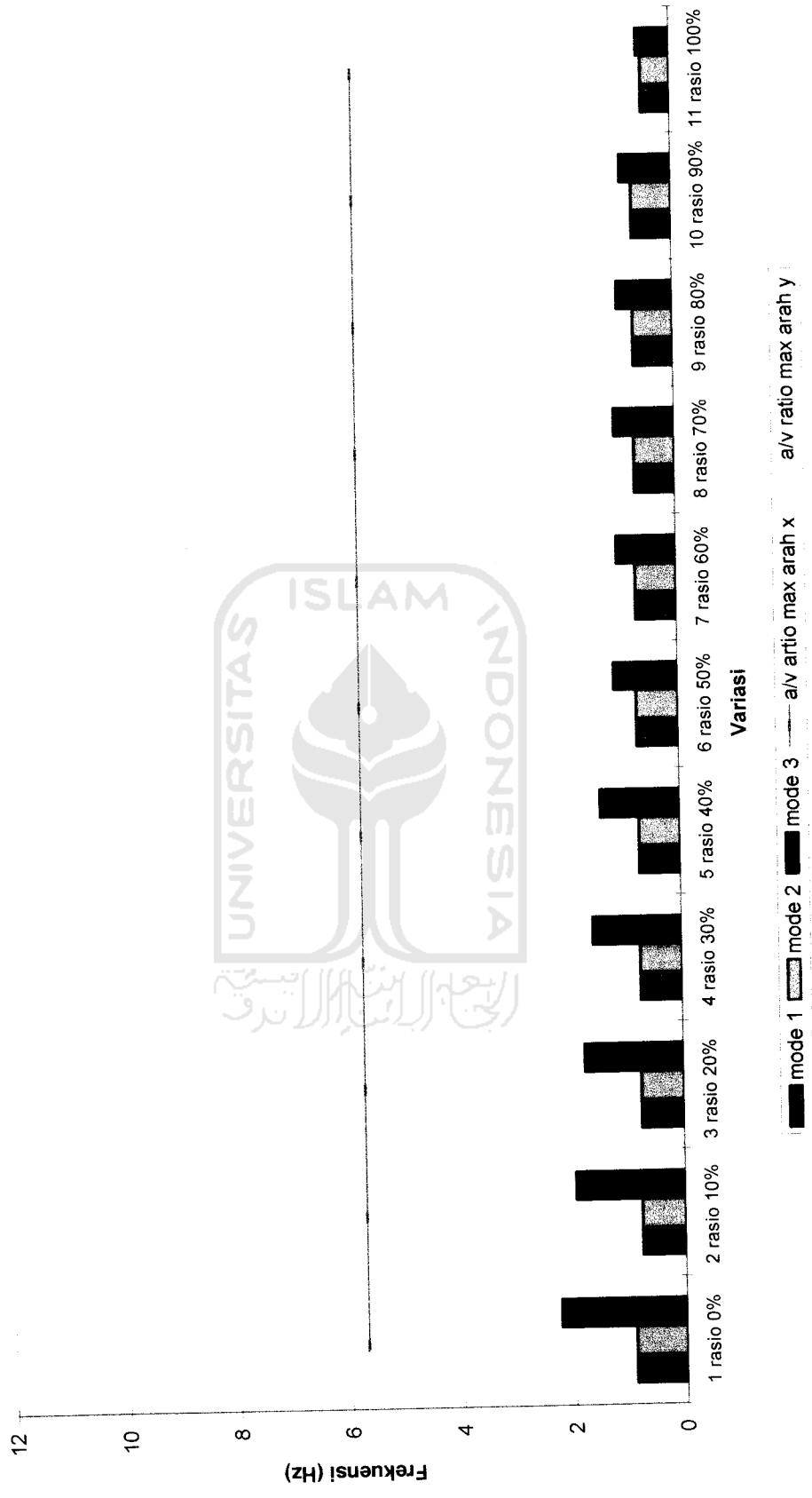
Tabel. a/v ratio maks arah x dan y Vs frekuensi mode tiap variasi

Mode	Variasi 1 rasio 0%	Variasi 2 rasio 10%	Variasi 3 rasio 20%	Variasi 4 rasio 30%	Variasi 5 rasio 40%	Variasi 6 rasio 50%	Variasi 7 rasio 60%	Variasi 8 rasio 70%	Variasi 9 rasio 80%	Variasi 10 rasio 90%	Variasi 11 rasio 100%
1	0.912666	0.778159	0.757704	0.745752	0.737268	0.751337	0.742028	0.722281	0.718813	0.71383	0.519792
2	0.912666	0.778159	0.757705	0.745752	0.737268	0.751337	0.742028	0.722281	0.718813	0.71383	0.519792
3	2.241458	1.953627	1.769394	1.585257	1.423163	1.148679	1.067728	1.082431	0.998616	0.916909	0.594031
a/v ratio arah x	5.691654	5.691654	5.691654	5.691654	5.691654	5.691654	5.691654	5.691654	5.691654	5.691654	5.691654
a/v ratio arah y	10.21537	10.21537	10.21537	10.21537	10.21537	10.21537	10.21537	10.21537	10.21537	10.21537	10.21537

arah x (E-W) 210.1423
 arah y (N-S) 341.6953
 a max 36.92113
 v max 33.44914

arah x (E-W) 210.1423
 arah y (N-S) 341.6953
 a/v arah x 5.691654
 a/v arah y 10.21537

AV Ratio Max Arah X dan Y Vs Frekuensi Mode tiap Variasi



KARTU PESERTA TUGAS AKHIR

NO.	N A M A	NO. MHS.	BID.STUDI
1	Untung S	98511199	Teknik Sipil
2	Amalia Ratnasari	98511095	Teknik Sipil

JUDUL TUGAS AKHIR :

.Anallsis dinamis 3.D pengaruh luas lubang dinding geser berlubang-portal terhadap simpangan, gaya geser, momen guling menggunakan eksitasi gempa el'centro.

PERIODE III : MARET - AGUSTUS

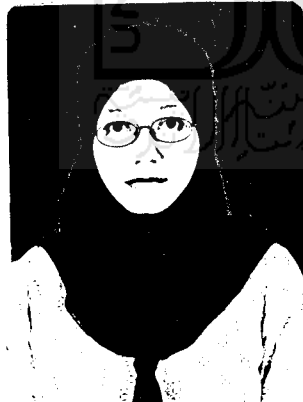
TAHUN : 2002 / 2003

No.	Kegiatan	Bulan Ke :					
		Mar.	Apr.	Mei.	Jun.	Jul.	Aug.
1.	Pendaftaran						
2.	Penentuan Dosen Pembimbing						
3.	Pembuatan Proposal						
4.	Seminar Proposal						
5.	Konsultasi Penyusunan TA.						
6.	Sidang-Sidang						
7.	Pendadaran.						

DOSEN PEMBIMBING I
DOSEN PEMBIMBING II

..... **Ir. H. Sarwidi, MSCE, PhD.**

..... **Tri. Fajar Budiono, ST, MT.**



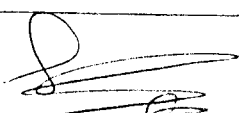



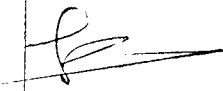

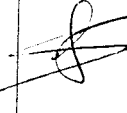

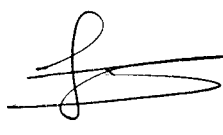
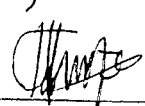
Yogyakarta, ... **01 April 2003.**
a.n. Dekan,

(Signature)
Ir. H. Munadhir, MS
(.....)

Catatan.

Seminar : *26 Mei 2003*
Sidang : *1 Oktober 2003*
Pendadaran :

CATATAN KONSULTASI TUGAS AKHIR

NO	TANGGAL	CATATAN KONSULTASI	TANDA TANGAN
01	02/05/2003	- Perbaiki Spm proposal - Mini skema dan Analisa	
2	09/05/2003	- Skema Samian proses	
3	9/5/03	- Perbaiki proposal	
3.	12/7/03	- Perbaiki betan urut, perbaiki Rumus	
4	19/7/03	Lanjutan Lampiran - ke DP I	
5.	22/07/03	- Perbaiki perubahan	
6.	12/08/03	- Cele Input: Satuan dan Besar/ Nilai - Btw ada yang rgo, diskusikan dg DP II - Patanti koki dan hasil dinamis	
7	24/08/2003	→ DP I sk untuk sidang → ke DP II untuk cek litnya dan peratijuan sidang	
8	8/9/03	→ all sidang	
9	21/10/2003	→ ke DP II dulu. Tolong di-Cele dan yelurken input beke? be- nar dan menyenti, termasuk outputnya	
10	21/10/2003	all DP II	

11 24/10/2003. Kalau sudah ada waltra
tolong ke DP II ^{atau ke DP II} lagi untuk
memastikan input dan output
dimengerti.
• Selesai dan lanjut ke Perbadaran