

Lampiran 3 Hasil Analisis *KENLAYER* pada Berbagai Variasi Tebal Lapis Permukaan

INPUT FILE NAME -F:\College\Semester 8\Tugas Akhir\KENPAVE\1_15.DAT

NUMBER OF PROBLEMS TO BE SOLVED = 1

TITLE -studisimulasi

MATL = 1 FOR LINEAR ELASTIC LAYERED SYSTEM
 NDAMA = 0, SO DAMAGE ANALYSIS WILL NOT BE PERFORMED
 NUMBER OF PERIODS PER YEAR (NPY) = 1
 NUMBER OF LOAD GROUPS (NLG) = 1
 TOLERANCE FOR INTEGRATION (DEL) -- = 0.001
 NUMBER OF LAYERS (NL)----- = 4
 NUMBER OF Z COORDINATES (NZ)----- = 12
 LIMIT OF INTEGRATION CYCLES (ICL)- = 80
 COMPUTING CODE (NSTD)----- = 9
 SYSTEM OF UNITS (NUNIT)----- = 1

Length and displacement in cm, stress and modulus in kPa
 unit weight in kN/m^3 , and temperature in C

THICKNESSES OF LAYERS (TH) ARE : 15 20 30
 POISSON'S RATIOS OF LAYERS (PR) ARE : 0.3 0.35 0.35 0.45
 VERTICAL COORDINATES OF POINTS (ZC) ARE: 0 0.001 14.999 15 15.001
 34.999 35 35.001 64.999 65 65.001 100
 ALL INTERFACES ARE FULLY BONDED

FOR PERIOD NO. 1 LAYER NO. AND MODULUS ARE : 1 2.000E+06 2 3.150E+05
 3 2.100E+05 4 1.500E+05

LOAD GROUP NO. 1 HAS 2 CONTACT AREAS
 CONTACT RADIUS (CR)----- = 11
 CONTACT PRESSURE (CP)----- = 550
 NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- = 3
 WHEEL SPACING ALONG X-AXIS (XW)----- = 0
 WHEEL SPACING ALONG Y-AXIS (YW)----- = 33

RESPONSE PT. NO. AND (XPT, YPT) ARE: 1 0.000 0.000 2 0.000 10.000
 3 0.000 16.500

PERIOD NO. 1 LOAD GROUP NO. 1

POINT NO.	VERTICAL COORDINATE	VERTICAL DISPL. (HORIZONTAL P. STRAIN)	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIPAL STRESS (STRAIN)	INTERMEDIATE PRINCIPAL STRESS (STRAIN)
1	0.00000	0.02865	550.000	697.386	443.882	657.139
	(STRAIN)	1.574E-04	1.876E-05	1.835E-04	1.876E-05	1.574E-04
1	0.00100	0.02889	548.493	800.100	548.494	696.983
	(STRAIN)	1.462E-04	4.968E-05	2.132E-04	4.968E-05	1.462E-04
1	14.99900	0.02670	148.830	149.512	-415.717	-320.334
	(STRAIN)	-1.822E-04	1.847E-04	1.852E-04	-1.822E-04	-1.202E-04
1	15.00000	0.02670	148.821	149.502	-415.805	-320.408
	(STRAIN)	-1.823E-04	1.847E-04	1.852E-04	-1.823E-04	-1.203E-04
1	15.00100	0.02670	148.814	151.148	-0.351	11.887
	(STRAIN)	-1.823E-04	4.570E-04	4.670E-04	-1.823E-04	-1.298E-04
1	34.99900	0.02074	55.421	57.184	-22.620	-14.786
	(STRAIN)	-1.189E-04	2.155E-04	2.231E-04	-1.189E-04	-8.535E-05
1	35.00000	0.02074	55.419	57.182	-22.621	-14.788
	(STRAIN)	-1.189E-04	2.155E-04	2.231E-04	-1.189E-04	-8.535E-05
1	35.00100	0.02074	55.417	57.614	-5.134	-0.933
	(STRAIN)	-1.189E-04	2.703E-04	2.845E-04	-1.189E-04	-9.191E-05
1	64.99900	0.01508	23.956	24.391	-9.555	-7.769
	(STRAIN)	-7.320E-05	1.422E-04	1.450E-04	-7.320E-05	-6.172E-05
1	65.00000	0.01508	23.955	24.390	-9.555	-7.769

	(STRAIN)	-7.320E-05	1.422E-04	1.450E-04	-7.320E-05	-6.172E-05
1	65.00100	0.01508	23.955	24.575	0.844	1.701
	(STRAIN)	-7.320E-05	1.502E-04	1.562E-04	-7.320E-05	-6.492E-05
1	100.00000	0.01113	13.086	13.290	0.268	0.504
	(STRAIN)	-3.960E-05	8.431E-05	8.628E-05	-3.960E-05	-3.731E-05
2	0.00000	0.02891	550.000	631.005	346.870	546.737
	(STRAIN)	1.267E-04	-3.226E-06	1.815E-04	-3.226E-06	1.267E-04
2	0.00100	0.02882	556.297	823.697	556.296	662.280
	(STRAIN)	1.241E-04	5.525E-05	2.291E-04	5.525E-05	1.241E-04
2	14.99900	0.02738	129.562	129.814	-370.474	-159.201
	(STRAIN)	-1.808E-04	1.442E-04	1.444E-04	-1.808E-04	-4.350E-05
2	15.00000	0.02738	129.557	129.807	-370.547	-159.235
	(STRAIN)	-1.809E-04	1.442E-04	1.444E-04	-1.809E-04	-4.351E-05
2	15.00100	0.02738	129.552	130.283	-0.609	30.744
	(STRAIN)	-1.809E-04	3.770E-04	3.801E-04	-1.809E-04	-4.648E-05
2	34.99900	0.02158	59.637	59.862	-24.292	-14.718
	(STRAIN)	-1.273E-04	2.324E-04	2.334E-04	-1.273E-04	-8.625E-05
2	35.00000	0.02157	59.635	59.860	-24.294	-14.720
	(STRAIN)	-1.273E-04	2.324E-04	2.334E-04	-1.273E-04	-8.625E-05
2	35.00100	0.02157	59.633	59.917	-5.492	0.756
	(STRAIN)	-1.273E-04	2.914E-04	2.932E-04	-1.273E-04	-8.711E-05
2	64.99900	0.01546	25.410	25.480	-10.096	-8.549
	(STRAIN)	-7.629E-05	1.520E-04	1.524E-04	-7.629E-05	-6.635E-05
2	65.00000	0.01546	25.410	25.479	-10.097	-8.550
	(STRAIN)	-7.630E-05	1.520E-04	1.524E-04	-7.630E-05	-6.635E-05
2	65.00100	0.01546	25.409	25.509	0.861	1.836
	(STRAIN)	-7.629E-05	1.610E-04	1.620E-04	-7.629E-05	-6.687E-05
2	100.00000	0.01129	13.549	13.581	0.270	0.522
	(STRAIN)	-4.051E-05	8.785E-05	8.817E-05	-4.051E-05	-3.807E-05
3	0.00000	0.02844	0.000	542.479	252.730	448.202
	(STRAIN)	1.048E-04	-2.224E-05	1.661E-04	-2.224E-05	1.048E-04
3	0.00100	0.02743	-2.029	446.234	-2.029	121.465
	(STRAIN)	-5.898E-06	-8.617E-05	2.052E-04	-8.617E-05	-5.898E-06
3	14.99900	0.02730	115.698	115.698	-335.395	-67.538
	(STRAIN)	-1.749E-04	1.183E-04	1.183E-04	-1.749E-04	-8.146E-07
3	15.00000	0.02730	115.696	115.696	-335.457	-67.550
	(STRAIN)	-1.750E-04	1.183E-04	1.183E-04	-1.750E-04	-8.110E-07
3	15.00100	0.02730	115.694	115.694	-0.608	40.021
	(STRAIN)	-1.749E-04	3.235E-04	3.235E-04	-1.749E-04	-8.230E-07
3	34.99900	0.02172	60.179	60.179	-24.529	-14.436
	(STRAIN)	-1.287E-04	2.343E-04	2.343E-04	-1.287E-04	-8.544E-05
3	35.00000	0.02172	60.177	60.177	-24.531	-14.438
	(STRAIN)	-1.287E-04	2.343E-04	2.343E-04	-1.287E-04	-8.544E-05
3	35.00100	0.02172	60.175	60.175	-5.553	1.175
	(STRAIN)	-1.287E-04	2.938E-04	2.938E-04	-1.287E-04	-8.544E-05
3	64.99900	0.01553	25.684	25.684	-10.198	-8.696
	(STRAIN)	-7.688E-05	1.538E-04	1.538E-04	-7.688E-05	-6.722E-05
3	65.00000	0.01553	25.684	25.684	-10.199	-8.697
	(STRAIN)	-7.688E-05	1.538E-04	1.538E-04	-7.688E-05	-6.722E-05
3	65.00100	0.01553	25.683	25.683	0.865	1.864
	(STRAIN)	-7.687E-05	1.630E-04	1.630E-04	-7.687E-05	-6.722E-05
3	100.00000	0.01132	13.635	13.635	0.271	0.526
	(STRAIN)	-4.068E-05	8.851E-05	8.851E-05	-4.068E-05	-3.821E-05

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 VERTICAL COORDINATES OF POINTS (ZC) ARE: 0 0.001 15.999 16 16.001
 35.999 36 36.001 65.999 66 66.001 100
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PERIOD NO. 1 LOAD GROUP NO. 1

POINT NO.	VERTICAL COORDINATE	VERTICAL DISPL. (HORIZONTAL P. STRAIN)	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIPAL STRESS (STRAIN)	INTERMEDIATE PRINCIPAL STRESS (STRAIN)
1	0.00000	0.02767	550.000	658.977	440.285	637.791
	(STRAIN)	1.540E-04	2.563E-05	1.678E-04	2.563E-05	1.540E-04
1	0.00100	0.02810	548.493	774.078	548.493	676.946
	(STRAIN)	1.401E-04	5.659E-05	2.032E-04	5.659E-05	1.401E-04
1	15.99900	0.02579	136.960	137.655	-392.897	-301.418
	(STRAIN)	-1.719E-04	1.725E-04	1.730E-04	-1.719E-04	-1.124E-04
1	16.00000	0.02579	136.952	137.646	-392.975	-301.483
	(STRAIN)	-1.719E-04	1.725E-04	1.730E-04	-1.719E-04	-1.124E-04
1	16.00100	0.02579	136.946	139.336	-2.041	9.549
	(STRAIN)	-1.719E-04	4.238E-04	4.340E-04	-1.719E-04	-1.222E-04
1	35.99900	0.02020	52.372	54.028	-21.555	-14.370
	(STRAIN)	-1.125E-04	2.043E-04	2.114E-04	-1.125E-04	-8.170E-05
1	36.00000	0.02020	52.370	54.026	-21.556	-14.371
	(STRAIN)	-1.125E-04	2.043E-04	2.114E-04	-1.125E-04	-8.170E-05
1	36.00100	0.02020	52.369	54.433	-4.971	-1.143
	(STRAIN)	-1.125E-04	2.561E-04	2.694E-04	-1.125E-04	-8.788E-05
1	65.99900	0.01480	23.051	23.457	-9.159	-7.504
	(STRAIN)	-7.020E-05	1.369E-04	1.395E-04	-7.020E-05	-5.956E-05
1	66.00000	0.01480	23.050	23.456	-9.160	-7.504
	(STRAIN)	-7.020E-05	1.369E-04	1.395E-04	-7.020E-05	-5.956E-05
1	66.00100	0.01480	23.050	23.629	0.834	1.626
	(STRAIN)	-7.020E-05	1.445E-04	1.501E-04	-7.020E-05	-6.255E-05
1	100.00000	0.01107	12.913	13.111	0.282	0.512
	(STRAIN)	-3.898E-05	8.311E-05	8.502E-05	-3.898E-05	-3.677E-05

2	0.00000	0.02809	550.000	611.327	346.871	531.848
	(STRAIN)	1.222E-04	1.959E-06	1.739E-04	1.959E-06	1.222E-04
2	0.00100	0.02801	556.297	801.708	556.298	655.115
	(STRAIN)	1.239E-04	5.962E-05	2.191E-04	5.963E-05	1.239E-04
2	15.99900	0.02650	121.490	121.631	-356.795	-164.163
	(STRAIN)	-1.720E-04	1.389E-04	1.390E-04	-1.720E-04	-4.681E-05
2	16.00000	0.02650	121.485	121.626	-356.861	-164.195
	(STRAIN)	-1.720E-04	1.389E-04	1.390E-04	-1.720E-04	-4.681E-05
2	16.00100	0.02650	121.482	121.905	-2.216	26.600
	(STRAIN)	-1.720E-04	3.581E-04	3.599E-04	-1.720E-04	-4.854E-05
2	35.99900	0.02099	56.373	56.590	-23.150	-14.509
	(STRAIN)	-1.202E-04	2.206E-04	2.215E-04	-1.202E-04	-8.322E-05
2	36.00000	0.02099	56.371	56.589	-23.151	-14.511
	(STRAIN)	-1.202E-04	2.206E-04	2.215E-04	-1.202E-04	-8.322E-05
2	36.00100	0.02099	56.370	56.644	-5.316	0.314
	(STRAIN)	-1.202E-04	2.763E-04	2.781E-04	-1.202E-04	-8.405E-05
2	65.99900	0.01516	24.407	24.472	-9.664	-8.240
	(STRAIN)	-7.307E-05	1.460E-04	1.464E-04	-7.307E-05	-6.392E-05
2	66.00000	0.01516	24.407	24.472	-9.664	-8.240
	(STRAIN)	-7.307E-05	1.460E-04	1.464E-04	-7.307E-05	-6.392E-05
2	66.00100	0.01516	24.406	24.500	0.850	1.747
	(STRAIN)	-7.307E-05	1.546E-04	1.555E-04	-7.307E-05	-6.440E-05
2	100.00000	0.01122	13.362	13.394	0.285	0.529
	(STRAIN)	-3.987E-05	8.655E-05	8.685E-05	-3.987E-05	-3.751E-05
3	0.00000	0.02764	0.000	526.515	252.729	437.975
	(STRAIN)	1.021E-04	-1.831E-05	1.597E-04	-1.831E-05	1.021E-04
3	0.00100	0.02663	-2.029	426.674	-2.029	120.397
	(STRAIN)	-3.499E-06	-8.308E-05	1.956E-04	-8.308E-05	-3.498E-06
3	15.99900	0.02645	110.137	110.137	-327.879	-87.100
	(STRAIN)	-1.674E-04	1.173E-04	1.173E-04	-1.674E-04	-1.089E-05
3	16.00000	0.02645	110.134	110.134	-327.935	-87.114
	(STRAIN)	-1.674E-04	1.173E-04	1.173E-04	-1.674E-04	-1.089E-05
3	16.00100	0.02645	110.132	110.132	-2.165	34.356
	(STRAIN)	-1.674E-04	3.139E-04	3.139E-04	-1.674E-04	-1.090E-05
3	35.99900	0.02114	56.917	56.917	-23.385	-14.309
	(STRAIN)	-1.216E-04	2.226E-04	2.226E-04	-1.216E-04	-8.268E-05
3	36.00000	0.02113	56.915	56.915	-23.387	-14.311
	(STRAIN)	-1.216E-04	2.226E-04	2.226E-04	-1.216E-04	-8.269E-05
3	36.00100	0.02113	56.914	56.914	-5.375	0.674
	(STRAIN)	-1.216E-04	2.789E-04	2.789E-04	-1.216E-04	-8.269E-05
3	65.99900	0.01523	24.663	24.663	-9.759	-8.378
	(STRAIN)	-7.361E-05	1.477E-04	1.477E-04	-7.361E-05	-6.474E-05
3	66.00000	0.01523	24.662	24.662	-9.759	-8.379
	(STRAIN)	-7.361E-05	1.477E-04	1.477E-04	-7.361E-05	-6.474E-05
3	66.00100	0.01523	24.662	24.662	0.853	1.771
	(STRAIN)	-7.361E-05	1.565E-04	1.565E-04	-7.361E-05	-6.474E-05
3	100.00000	0.01125	13.446	13.446	0.286	0.533
	(STRAIN)	-4.003E-05	8.718E-05	8.718E-05	-4.003E-05	-3.764E-05

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 NUMBER OF Z COORDINATES (NZ)----- = 12
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Length and displacement in cm, stress and modulus in kPa
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THICKNESSES OF LAYERS (TH) ARE : 16.5 20 30
 POISSON'S RATIOS OF LAYERS (PR) ARE : 0.3 0.35 0.35 0.45
 VERTICAL COORDINATES OF POINTS (ZC) ARE: 0 0.001 16.499 16.5 16.501
 36.499 36.5 36.501 66.499 66.5 66.501 100
 ALL INTERFACES ARE FULLY BONDED

FOR PERIOD NO. 1 LAYER NO. AND MODULUS ARE : 1 2.000E+06 2 3.150E+05
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LOAD GROUP NO. 1 HAS 2 CONTACT AREAS
 CONTACT RADIUS (CR)----- = 11
 CONTACT PRESSURE (CP)----- = 550
 NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- = 3
 WHEEL SPACING ALONG X-AXIS (XW)----- = 0
 WHEEL SPACING ALONG Y-AXIS (YW)----- = 33

RESPONSE PT. NO. AND (XPT, YPT) ARE: 1 0.000 0.000 2 0.000 10.000
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PERIOD NO. 1 LOAD GROUP NO. 1

POINT NO.	VERTICAL COORDINATE	VERTICAL DISPL. (HORIZONTAL P. STRAIN)	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIPAL STRESS (STRAIN)	INTERMEDIATE PRINCIPAL STRESS (STRAIN)
1	0.00000	0.02729	550.000	648.789	440.285	627.792
	(STRAIN)	1.505E-04	2.866E-05	1.642E-04	2.866E-05	1.505E-04
1	0.00100	0.02773	548.493	762.188	548.492	667.963
	(STRAIN)	1.374E-04	5.972E-05	1.986E-04	5.972E-05	1.374E-04
1	16.49900	0.02536	131.526	132.225	-381.967	-292.487
	(STRAIN)	-1.669E-04	1.668E-04	1.673E-04	-1.669E-04	-1.088E-04
1	16.50000	0.02536	131.518	132.217	-382.041	-292.548
	(STRAIN)	-1.670E-04	1.668E-04	1.673E-04	-1.670E-04	-1.088E-04
1	16.50100	0.02536	131.512	133.921	-2.734	8.534
	(STRAIN)	-1.670E-04	4.084E-04	4.187E-04	-1.670E-04	-1.187E-04
1	36.49900	0.01995	50.940	52.544	-21.054	-14.167
	(STRAIN)	-1.095E-04	1.991E-04	2.059E-04	-1.095E-04	-7.996E-05
1	36.50000	0.01995	50.938	52.542	-21.056	-14.169
	(STRAIN)	-1.095E-04	1.991E-04	2.059E-04	-1.095E-04	-7.996E-05
1	36.50100	0.01995	50.937	52.938	-4.895	-1.235
	(STRAIN)	-1.095E-04	2.494E-04	2.623E-04	-1.095E-04	-8.595E-05
1	66.49900	0.01466	22.615	23.007	-8.970	-7.375
	(STRAIN)	-6.877E-05	1.343E-04	1.368E-04	-6.877E-05	-5.852E-05
1	66.50000	0.01466	22.614	23.007	-8.970	-7.376
	(STRAIN)	-6.877E-05	1.343E-04	1.368E-04	-6.877E-05	-5.852E-05
1	66.50100	0.01466	22.614	23.173	0.829	1.591
	(STRAIN)	-6.876E-05	1.418E-04	1.472E-04	-6.876E-05	-6.140E-05
1	100.00000	0.01103	12.826	13.021	0.290	0.516
	(STRAIN)	-3.868E-05	8.250E-05	8.439E-05	-3.868E-05	-3.650E-05

2	0.00000	0.02769	550.000	601.941	346.870	524.689
	(STRAIN)	1.200E-04	4.441E-06	1.702E-04	4.441E-06	1.200E-04
2	0.00100	0.02762	556.297	791.288	556.296	651.303
	(STRAIN)	1.235E-04	6.176E-05	2.145E-04	6.176E-05	1.235E-04
2	16.49900	0.02608	117.708	117.812	-349.962	-166.019
	(STRAIN)	-1.677E-04	1.362E-04	1.363E-04	-1.677E-04	-4.819E-05
2	16.50000	0.02608	117.704	117.806	-350.024	-166.051
	(STRAIN)	-1.678E-04	1.362E-04	1.363E-04	-1.678E-04	-4.819E-05
2	16.50100	0.02608	117.700	118.013	-2.896	24.706
	(STRAIN)	-1.678E-04	3.491E-04	3.504E-04	-1.678E-04	-4.948E-05
2	36.49900	0.02071	54.834	55.046	-22.611	-14.392
	(STRAIN)	-1.170E-04	2.150E-04	2.159E-04	-1.170E-04	-8.173E-05
2	36.50000	0.02071	54.832	55.044	-22.613	-14.394
	(STRAIN)	-1.170E-04	2.150E-04	2.159E-04	-1.170E-04	-8.173E-05
2	36.50100	0.02071	54.830	55.099	-5.234	0.118
	(STRAIN)	-1.170E-04	2.692E-04	2.709E-04	-1.170E-04	-8.255E-05
2	66.49900	0.01501	23.925	23.987	-9.457	-8.090
	(STRAIN)	-7.153E-05	1.431E-04	1.435E-04	-7.153E-05	-6.274E-05
2	66.50000	0.01501	23.924	23.987	-9.457	-8.090
	(STRAIN)	-7.153E-05	1.431E-04	1.435E-04	-7.153E-05	-6.274E-05
2	66.50100	0.01501	23.924	24.014	0.844	1.705
	(STRAIN)	-7.153E-05	1.516E-04	1.524E-04	-7.153E-05	-6.321E-05
2	100.00000	0.01119	13.269	13.300	0.292	0.533
	(STRAIN)	-3.955E-05	8.589E-05	8.619E-05	-3.955E-05	-3.723E-05
3	0.00000	0.02725	0.000	518.678	252.730	432.845
	(STRAIN)	1.007E-04	-1.636E-05	1.565E-04	-1.636E-05	1.007E-04
3	0.00100	0.02625	-2.029	417.202	-2.029	119.028
	(STRAIN)	-2.762E-06	-8.145E-05	1.911E-04	-8.145E-05	-2.762E-06
3	16.49900	0.02605	107.428	107.428	-323.725	-95.324
	(STRAIN)	-1.637E-04	1.166E-04	1.166E-04	-1.637E-04	-1.522E-05
3	16.50000	0.02605	107.426	107.426	-323.779	-95.339
	(STRAIN)	-1.637E-04	1.166E-04	1.166E-04	-1.637E-04	-1.522E-05
3	16.50100	0.02605	107.423	107.423	-2.833	31.810
	(STRAIN)	-1.637E-04	3.088E-04	3.088E-04	-1.637E-04	-1.523E-05
3	36.49900	0.02085	55.375	55.375	-22.845	-14.227
	(STRAIN)	-1.182E-04	2.170E-04	2.170E-04	-1.182E-04	-8.131E-05
3	36.50000	0.02085	55.374	55.374	-22.846	-14.229
	(STRAIN)	-1.182E-04	2.170E-04	2.170E-04	-1.182E-04	-8.131E-05
3	36.50100	0.02085	55.372	55.372	-5.292	0.453
	(STRAIN)	-1.182E-04	2.717E-04	2.717E-04	-1.182E-04	-8.131E-05
3	66.49900	0.01508	24.172	24.172	-9.548	-8.224
	(STRAIN)	-7.205E-05	1.447E-04	1.447E-04	-7.205E-05	-6.353E-05
3	66.50000	0.01508	24.171	24.171	-9.549	-8.224
	(STRAIN)	-7.205E-05	1.447E-04	1.447E-04	-7.205E-05	-6.353E-05
3	66.50100	0.01508	24.171	24.171	0.847	1.728
	(STRAIN)	-7.205E-05	1.534E-04	1.534E-04	-7.205E-05	-6.353E-05
3	100.00000	0.01121	13.351	13.351	0.293	0.537
	(STRAIN)	-3.971E-05	8.652E-05	8.652E-05	-3.971E-05	-3.736E-05

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NUMBER OF PROBLEMS TO BE SOLVED = 1

TITLE -studisimulasi

MATL = 1 FOR LINEAR ELASTIC LAYERED SYSTEM
 NDAMA = 0, SO DAMAGE ANALYSIS WILL NOT BE PERFORMED
 NUMBER OF PERIODS PER YEAR (NPY) = 1
 NUMBER OF LOAD GROUPS (NLG) = 1
 TOLERANCE FOR INTEGRATION (DEL) -- = 0.001
 NUMBER OF LAYERS (NL)----- = 4
 NUMBER OF Z COORDINATES (NZ)----- = 12
 LIMIT OF INTEGRATION CYCLES (ICL)- = 80
 COMPUTING CODE (NSTD)----- = 9
 SYSTEM OF UNITS (NUNIT)----- = 1

Length and displacement in cm, stress and modulus in kPa
 unit weight in kN/m³, and temperature in C

THICKNESSES OF LAYERS (TH) ARE : 18.5 20 30
 POISSON'S RATIOS OF LAYERS (PR) ARE : 0.3 0.35 0.35 0.45
 VERTICAL COORDINATES OF POINTS (ZC) ARE: 0 0.001 18.499 18.5 18.501
 38.499 38.5 38.501 68.499 68.5 68.501 100
 ALL INTERFACES ARE FULLY BONDED

FOR PERIOD NO. 1 LAYER NO. AND MODULUS ARE : 1 2.000E+06 2 3.150E+05
 3 2.100E+05 4 1.500E+05

LOAD GROUP NO. 1 HAS 2 CONTACT AREAS
 CONTACT RADIUS (CR)----- = 11
 CONTACT PRESSURE (CP)----- = 550
 NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- = 3
 WHEEL SPACING ALONG X-AXIS (XW)----- = 0
 WHEEL SPACING ALONG Y-AXIS (YW)----- = 33

RESPONSE PT. NO. AND (XPT, YPT) ARE: 1 0.000 0.000 2 0.000 10.000
 3 0.000 16.500

PERIOD NO. 1 LOAD GROUP NO. 1

POINT NO.	VERTICAL COORDINATE	VERTICAL DISPL. (HORIZONTAL P. STRAIN)	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIPAL STRESS (STRAIN)	INTERMEDIATE PRINCIPAL STRESS (STRAIN)
1	0.00000	0.02589	550.000	612.302	440.285	592.309
	(STRAIN)	1.383E-04	3.945E-05	1.513E-04	3.945E-05	1.383E-04
1	0.00100	0.02637	548.274	721.012	548.274	637.585
	(STRAIN)	1.284E-04	7.035E-05	1.826E-04	7.035E-05	1.284E-04
1	18.49900	0.02377	112.616	113.320	-341.580	-260.130
	(STRAIN)	-1.488E-04	1.465E-04	1.469E-04	-1.488E-04	-9.583E-05
1	18.50000	0.02377	112.609	113.313	-341.640	-260.179
	(STRAIN)	-1.488E-04	1.465E-04	1.469E-04	-1.488E-04	-9.584E-05
1	18.50100	0.02377	112.596	115.042	-4.762	5.262
	(STRAIN)	-1.488E-04	3.542E-04	3.647E-04	-1.488E-04	-1.058E-04
1	38.49900	0.01897	45.755	47.165	-19.240	-13.389
	(STRAIN)	-9.861E-05	1.799E-04	1.860E-04	-9.861E-05	-7.353E-05
1	38.50000	0.01897	45.754	47.163	-19.241	-13.390
	(STRAIN)	-9.861E-05	1.799E-04	1.860E-04	-9.861E-05	-7.353E-05
1	38.50100	0.01897	45.752	47.515	-4.615	-1.538
	(STRAIN)	-9.860E-05	2.252E-04	2.365E-04	-9.860E-05	-7.883E-05
1	68.49900	0.01413	20.974	21.316	-8.262	-6.884
	(STRAIN)	-6.340E-05	1.245E-04	1.267E-04	-6.340E-05	-5.454E-05
1	68.50000	0.01413	20.973	21.316	-8.262	-6.885
	(STRAIN)	-6.340E-05	1.245E-04	1.267E-04	-6.340E-05	-5.454E-05
1	68.50100	0.01413	20.973	21.462	0.806	1.461
	(STRAIN)	-6.340E-05	1.316E-04	1.363E-04	-6.340E-05	-5.706E-05
1	100.00000	0.01089	12.475	12.659	0.319	0.531
	(STRAIN)	-3.745E-05	8.006E-05	8.185E-05	-3.745E-05	-3.539E-05

2	0.00000	0.02623	550.000	567.400	346.870	497.983
	(STRAIN)	1.118E-04	1.363E-05	1.570E-04	1.363E-05	1.119E-04
2	0.00100	0.02617	556.281	753.302	556.282	635.183
	(STRAIN)	1.212E-04	6.987E-05	1.979E-04	6.987E-05	1.212E-04
2	18.49900	0.02449	104.087	104.108	-323.146	-170.044
	(STRAIN)	-1.517E-04	1.260E-04	1.260E-04	-1.517E-04	-5.217E-05
2	18.50000	0.02449	104.082	104.104	-323.198	-170.073
	(STRAIN)	-1.517E-04	1.260E-04	1.260E-04	-1.517E-04	-5.217E-05
2	18.50100	0.02449	104.081	104.150	-4.967	18.187
	(STRAIN)	-1.517E-04	3.156E-04	3.159E-04	-1.517E-04	-5.247E-05
2	38.49900	0.01965	49.230	49.425	-20.650	-13.866
	(STRAIN)	-1.051E-04	1.944E-04	1.953E-04	-1.051E-04	-7.599E-05
2	38.50000	0.01965	49.229	49.423	-20.651	-13.868
	(STRAIN)	-1.051E-04	1.944E-04	1.953E-04	-1.051E-04	-7.599E-05
2	38.50100	0.01965	49.227	49.474	-4.932	-0.527
	(STRAIN)	-1.051E-04	2.431E-04	2.447E-04	-1.051E-04	-7.674E-05
2	68.49900	0.01444	22.116	22.171	-8.687	-7.519
	(STRAIN)	-6.579E-05	1.322E-04	1.326E-04	-6.579E-05	-5.828E-05
2	68.50000	0.01444	22.116	22.170	-8.688	-7.519
	(STRAIN)	-6.579E-05	1.322E-04	1.326E-04	-6.579E-05	-5.828E-05
2	68.50100	0.01444	22.115	22.194	0.818	1.552
	(STRAIN)	-6.579E-05	1.401E-04	1.409E-04	-6.579E-05	-5.869E-05
2	100.00000	0.01104	12.894	12.923	0.321	0.548
	(STRAIN)	-3.827E-05	8.326E-05	8.355E-05	-3.827E-05	-3.608E-05
3	0.00000	0.02580	0.000	488.686	252.729	412.623
	(STRAIN)	9.510E-05	-8.832E-06	1.445E-04	-8.832E-06	9.510E-05
3	0.00100	0.02480	-2.029	381.706	-2.029	109.785
	(STRAIN)	-2.059E-06	-7.474E-05	1.747E-04	-7.474E-05	-2.059E-06
3	18.49900	0.02451	97.169	97.169	-305.491	-119.923
	(STRAIN)	-1.493E-04	1.124E-04	1.124E-04	-1.493E-04	-2.871E-05
3	18.50000	0.02451	97.166	97.166	-305.538	-119.939
	(STRAIN)	-1.494E-04	1.124E-04	1.124E-04	-1.494E-04	-2.871E-05
3	18.50100	0.02451	97.163	97.163	-4.902	23.245
	(STRAIN)	-1.493E-04	2.881E-04	2.881E-04	-1.493E-04	-2.872E-05
3	38.49900	0.01978	49.751	49.751	-20.873	-13.808
	(STRAIN)	-1.062E-04	1.965E-04	1.965E-04	-1.062E-04	-7.592E-05
3	38.50000	0.01977	49.749	49.749	-20.875	-13.809
	(STRAIN)	-1.062E-04	1.965E-04	1.965E-04	-1.062E-04	-7.592E-05
3	38.50100	0.01977	49.747	49.747	-4.987	-0.277
	(STRAIN)	-1.062E-04	2.457E-04	2.457E-04	-1.062E-04	-7.592E-05
3	68.49900	0.01450	22.331	22.331	-8.767	-7.638
	(STRAIN)	-6.623E-05	1.337E-04	1.337E-04	-6.623E-05	-5.898E-05
3	68.50000	0.01450	22.331	22.331	-8.767	-7.639
	(STRAIN)	-6.624E-05	1.337E-04	1.337E-04	-6.624E-05	-5.898E-05
3	68.50100	0.01450	22.330	22.330	0.820	1.571
	(STRAIN)	-6.623E-05	1.417E-04	1.417E-04	-6.623E-05	-5.898E-05
3	100.00000	0.01107	12.972	12.972	0.323	0.552
	(STRAIN)	-3.842E-05	8.385E-05	8.385E-05	-3.842E-05	-3.621E-05

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NUMBER OF PROBLEMS TO BE SOLVED = 1

TITLE -studisimulasi

MATL = 1 FOR LINEAR ELASTIC LAYERED SYSTEM
 NDAMA = 0, SO DAMAGE ANALYSIS WILL NOT BE PERFORMED
 NUMBER OF PERIODS PER YEAR (NPY) = 1
 NUMBER OF LOAD GROUPS (NLG) = 1
 TOLERANCE FOR INTEGRATION (DEL) -- = 0.001
 NUMBER OF LAYERS (NL)----- = 4
 NUMBER OF Z COORDINATES (NZ)----- = 12
 LIMIT OF INTEGRATION CYCLES (ICL)- = 80
 COMPUTING CODE (NSTD)----- = 9
 SYSTEM OF UNITS (NUNIT)----- = 1

Length and displacement in cm, stress and modulus in kPa
 unit weight in kN/m³, and temperature in C

THICKNESSES OF LAYERS (TH) ARE : 19 20 30
 POISSON'S RATIOS OF LAYERS (PR) ARE : 0.3 0.35 0.35 0.45
 VERTICAL COORDINATES OF POINTS (ZC) ARE: 0 0.001 18.999 19 19.001
 38.999 39 39.001 68.999 69 69.001 100
 ALL INTERFACES ARE FULLY BONDED

FOR PERIOD NO. 1 LAYER NO. AND MODULUS ARE : 1 2.000E+06 2 3.150E+05
 3 2.100E+05 4 1.500E+05

LOAD GROUP NO. 1 HAS 2 CONTACT AREAS
 CONTACT RADIUS (CR)----- = 11
 CONTACT PRESSURE (CP)----- = 550
 NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- = 3
 WHEEL SPACING ALONG X-AXIS (XW)----- = 0
 WHEEL SPACING ALONG Y-AXIS (YW)----- = 33

RESPONSE PT. NO. AND (XPT, YPT) ARE: 1 0.000 0.000 2 0.000 10.000
 3 0.000 16.500

PERIOD NO. 1 LOAD GROUP NO. 1

POINT NO.	VERTICAL COORDINATE	VERTICAL DISPL. (HORIZONTAL P. STRAIN)	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIPAL STRESS (STRAIN)	INTERMEDIATE PRINCIPAL STRESS (STRAIN)
1	0.00000	0.02557	550.000	604.166	440.284	584.451
	(STRAIN)	1.356E-04	4.185E-05	1.484E-04	4.185E-05	1.356E-04
1	0.00100	0.02606	577.243	734.738	577.240	653.806
	(STRAIN)	1.301E-04	8.034E-05	1.827E-04	8.034E-05	1.301E-04
1	18.99900	0.02340	108.503	109.206	-332.317	-252.840
	(STRAIN)	-1.446E-04	1.419E-04	1.424E-04	-1.446E-04	-9.295E-05
1	19.00000	0.02340	108.497	109.199	-332.373	-252.886
	(STRAIN)	-1.446E-04	1.419E-04	1.424E-04	-1.446E-04	-9.297E-05
1	19.00100	0.02340	108.485	110.930	-5.123	4.600
	(STRAIN)	-1.446E-04	3.423E-04	3.527E-04	-1.446E-04	-1.030E-04
1	38.99900	0.01874	44.581	45.947	-18.827	-13.203
	(STRAIN)	-9.615E-05	1.756E-04	1.815E-04	-9.615E-05	-7.205E-05
1	39.00000	0.01874	44.580	45.945	-18.829	-13.204
	(STRAIN)	-9.615E-05	1.756E-04	1.814E-04	-9.615E-05	-7.205E-05
1	39.00100	0.01874	44.578	46.287	-4.551	-1.600
	(STRAIN)	-9.615E-05	2.197E-04	2.307E-04	-9.615E-05	-7.718E-05
1	68.99900	0.01400	20.588	20.919	-8.097	-6.768
	(STRAIN)	-6.214E-05	1.223E-04	1.244E-04	-6.214E-05	-5.360E-05
1	69.00000	0.01400	20.588	20.919	-8.098	-6.768
	(STRAIN)	-6.215E-05	1.223E-04	1.244E-04	-6.215E-05	-5.360E-05
1	69.00100	0.01400	20.587	21.060	0.799	1.431
	(STRAIN)	-6.214E-05	1.291E-04	1.337E-04	-6.214E-05	-5.604E-05
1	100.00000	0.01086	12.387	12.569	0.326	0.535
	(STRAIN)	-3.714E-05	7.945E-05	8.121E-05	-3.714E-05	-3.512E-05

2	0.00000	0.02589	550.000	559.488	346.870	491.789
	(STRAIN)	1.099E-04	1.574E-05	1.539E-04	1.574E-05	1.099E-04
2	0.00100	0.02584	558.461	745.960	558.460	633.179
	(STRAIN)	1.209E-04	7.236E-05	1.942E-04	7.236E-05	1.209E-04
2	18.99900	0.02412	101.021	101.034	-316.645	-170.352
	(STRAIN)	-1.479E-04	1.236E-04	1.236E-04	-1.479E-04	-5.283E-05
2	19.00000	0.02412	101.017	101.030	-316.694	-170.380
	(STRAIN)	-1.479E-04	1.236E-04	1.236E-04	-1.479E-04	-5.284E-05
2	19.00100	0.02412	101.015	101.056	-5.353	16.796
	(STRAIN)	-1.479E-04	3.079E-04	3.081E-04	-1.479E-04	-5.302E-05
2	38.99900	0.01940	47.957	48.147	-20.203	-13.725
	(STRAIN)	-1.024E-04	1.897E-04	1.905E-04	-1.024E-04	-7.462E-05
2	39.00000	0.01940	47.956	48.145	-20.205	-13.727
	(STRAIN)	-1.024E-04	1.897E-04	1.905E-04	-1.024E-04	-7.462E-05
2	39.00100	0.01940	47.954	48.195	-4.862	-0.658
	(STRAIN)	-1.024E-04	2.372E-04	2.387E-04	-1.024E-04	-7.536E-05
2	68.99900	0.01431	21.693	21.746	-8.509	-7.384
	(STRAIN)	-6.445E-05	1.297E-04	1.300E-04	-6.445E-05	-5.722E-05
2	69.00000	0.01431	21.692	21.746	-8.509	-7.384
	(STRAIN)	-6.445E-05	1.297E-04	1.300E-04	-6.445E-05	-5.722E-05
2	69.00100	0.01431	21.692	21.768	0.811	1.517
	(STRAIN)	-6.445E-05	1.374E-04	1.381E-04	-6.445E-05	-5.762E-05
2	100.00000	0.01100	12.800	12.829	0.328	0.551
	(STRAIN)	-3.795E-05	8.261E-05	8.289E-05	-3.795E-05	-3.580E-05
3	0.00000	0.02546	0.000	481.583	252.729	407.702
	(STRAIN)	9.370E-05	-7.028E-06	1.417E-04	-7.028E-06	9.370E-05
3	0.00100	0.02447	-2.029	373.464	-2.029	106.827
	(STRAIN)	-2.302E-06	-7.306E-05	1.710E-04	-7.306E-05	-2.302E-06
3	18.99900	0.02415	94.758	94.758	-300.695	-124.365
	(STRAIN)	-1.459E-04	1.111E-04	1.111E-04	-1.459E-04	-3.129E-05
3	19.00000	0.02415	94.756	94.756	-300.739	-124.382
	(STRAIN)	-1.459E-04	1.111E-04	1.111E-04	-1.459E-04	-3.129E-05
3	19.00100	0.02415	94.753	94.753	-5.294	21.451
	(STRAIN)	-1.459E-04	2.829E-04	2.829E-04	-1.459E-04	-3.130E-05
3	38.99900	0.01952	48.470	48.470	-20.424	-13.687
	(STRAIN)	-1.035E-04	1.918E-04	1.918E-04	-1.035E-04	-7.461E-05
3	39.00000	0.01952	48.468	48.468	-20.425	-13.688
	(STRAIN)	-1.035E-04	1.918E-04	1.918E-04	-1.035E-04	-7.461E-05
3	39.00100	0.01952	48.467	48.467	-4.917	-0.426
	(STRAIN)	-1.035E-04	2.397E-04	2.397E-04	-1.035E-04	-7.461E-05
3	68.99900	0.01437	21.901	21.901	-8.585	-7.500
	(STRAIN)	-6.488E-05	1.311E-04	1.311E-04	-6.488E-05	-5.791E-05
3	69.00000	0.01437	21.900	21.900	-8.586	-7.500
	(STRAIN)	-6.488E-05	1.311E-04	1.311E-04	-6.489E-05	-5.791E-05
3	69.00100	0.01437	21.900	21.900	0.813	1.535
	(STRAIN)	-6.488E-05	1.390E-04	1.390E-04	-6.488E-05	-5.791E-05
3	100.00000	0.01103	12.877	12.877	0.330	0.555
	(STRAIN)	-3.810E-05	8.319E-05	8.319E-05	-3.810E-05	-3.592E-05

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NUMBER OF PROBLEMS TO BE SOLVED = 1

TITLE -studisimulasi

MATL = 1 FOR LINEAR ELASTIC LAYERED SYSTEM
 NDAMA = 0, SO DAMAGE ANALYSIS WILL NOT BE PERFORMED
 NUMBER OF PERIODS PER YEAR (NPY) = 1
 NUMBER OF LOAD GROUPS (NLG) = 1
 TOLERANCE FOR INTEGRATION (DEL) -- = 0.001
 NUMBER OF LAYERS (NL)----- = 4
 NUMBER OF Z COORDINATES (NZ)----- = 12
 LIMIT OF INTEGRATION CYCLES (ICL)- = 80
 COMPUTING CODE (NSTD)----- = 9
 SYSTEM OF UNITS (NUNIT)----- = 1

Length and displacement in cm, stress and modulus in kPa
 unit weight in kN/m³, and temperature in C

THICKNESSES OF LAYERS (TH) ARE : 20 20 30
 POISSON'S RATIOS OF LAYERS (PR) ARE : 0.3 0.35 0.35 0.45
 VERTICAL COORDINATES OF POINTS (ZC) ARE: 0 0.001 19.999 20 20.001
 39.999 40 40.001 69.999 70 70.001 100
 ALL INTERFACES ARE FULLY BONDED

FOR PERIOD NO. 1 LAYER NO. AND MODULUS ARE : 1 2.000E+06 2 3.150E+05
 3 2.100E+05 4 1.500E+05

LOAD GROUP NO. 1 HAS 2 CONTACT AREAS
 CONTACT RADIUS (CR)----- = 11
 CONTACT PRESSURE (CP)----- = 550
 NO. OF POINTS AT WHICH RESULTS ARE DESIRED (NPT)-- = 3
 WHEEL SPACING ALONG X-AXIS (XW)----- = 0
 WHEEL SPACING ALONG Y-AXIS (YW)----- = 33

RESPONSE PT. NO. AND (XPT, YPT) ARE: 1 0.000 0.000 2 0.000 10.000
 3 0.000 16.500

PERIOD NO. 1 LOAD GROUP NO. 1

POINT NO.	VERTICAL COORDINATE	VERTICAL DISPL. (HORIZONTAL P. STRAIN)	VERTICAL STRESS (STRAIN)	MAJOR PRINCIPAL STRESS (STRAIN)	MINOR PRINCIPAL STRESS (STRAIN)	INTERMEDIATE PRINCIPAL STRESS (STRAIN)
1	0.00000	0.02495	550.000	588.960	440.284	569.797
	(STRAIN)	1.305E-04	4.633E-05	1.430E-04	4.633E-05	1.305E-04
1	0.00100	0.02545	579.987	716.569	579.984	640.331
	(STRAIN)	1.257E-04	8.646E-05	1.752E-04	8.646E-05	1.257E-04
1	19.99900	0.02270	100.903	101.601	-314.746	-239.133
	(STRAIN)	-1.367E-04	1.334E-04	1.339E-04	-1.367E-04	-8.759E-05
1	20.00000	0.02270	100.897	101.595	-314.797	-239.174
	(STRAIN)	-1.368E-04	1.334E-04	1.339E-04	-1.368E-04	-8.761E-05
1	20.00100	0.02270	100.889	103.324	-5.715	3.428
	(STRAIN)	-1.368E-04	3.201E-04	3.306E-04	-1.368E-04	-9.757E-05
1	39.99900	0.01829	42.364	43.644	-18.047	-12.840
	(STRAIN)	-9.152E-05	1.674E-04	1.729E-04	-9.152E-05	-6.920E-05
1	40.00000	0.01829	42.363	43.643	-18.048	-12.841
	(STRAIN)	-9.152E-05	1.674E-04	1.729E-04	-9.152E-05	-6.920E-05
1	40.00100	0.01829	42.361	43.965	-4.429	-1.708
	(STRAIN)	-9.152E-05	2.093E-04	2.196E-04	-9.152E-05	-7.403E-05
1	69.99900	0.01375	19.846	20.156	-7.782	-6.542
	(STRAIN)	-5.975E-05	1.179E-04	1.199E-04	-5.975E-05	-5.177E-05
1	70.00000	0.01375	19.845	20.155	-7.782	-6.542
	(STRAIN)	-5.975E-05	1.179E-04	1.199E-04	-5.975E-05	-5.177E-05
1	70.00100	0.01375	19.845	20.288	0.786	1.374
	(STRAIN)	-5.974E-05	1.245E-04	1.288E-04	-5.974E-05	-5.406E-05
1	100.00000	0.01079	12.212	12.389	0.339	0.543
	(STRAIN)	-3.653E-05	7.824E-05	7.995E-05	-3.653E-05	-3.457E-05

2	0.00000	0.02524	550.000	544.492	346.870	479.959
	(STRAIN)	1.063E-04	1.977E-05	1.482E-04	1.977E-05	1.063E-04
2	0.00100	0.02519	559.048	730.084	559.046	625.718
	(STRAIN)	1.195E-04	7.615E-05	1.873E-04	7.615E-05	1.195E-04
2	19.99900	0.02341	95.253	95.256	-303.952	-170.311
	(STRAIN)	-1.407E-04	1.188E-04	1.188E-04	-1.407E-04	-5.385E-05
2	20.00000	0.02341	95.249	95.252	-303.998	-170.336
	(STRAIN)	-1.407E-04	1.188E-04	1.188E-04	-1.407E-04	-5.386E-05
2	20.00100	0.02341	95.247	95.256	-5.999	14.261
	(STRAIN)	-1.407E-04	2.932E-04	2.932E-04	-1.407E-04	-5.390E-05
2	39.99900	0.01892	45.548	45.729	-19.356	-13.437
	(STRAIN)	-9.733E-05	1.808E-04	1.816E-04	-9.733E-05	-7.196E-05
2	40.00000	0.01892	45.547	45.727	-19.357	-13.438
	(STRAIN)	-9.733E-05	1.808E-04	1.816E-04	-9.733E-05	-7.196E-05
2	40.00100	0.01892	45.546	45.775	-4.730	-0.893
	(STRAIN)	-9.733E-05	2.259E-04	2.273E-04	-9.733E-05	-7.266E-05
2	69.99900	0.01404	20.879	20.929	-8.167	-7.123
	(STRAIN)	-6.190E-05	1.248E-04	1.251E-04	-6.190E-05	-5.519E-05
2	70.00000	0.01404	20.879	20.929	-8.167	-7.124
	(STRAIN)	-6.190E-05	1.248E-04	1.251E-04	-6.190E-05	-5.519E-05
2	70.00100	0.01404	20.878	20.950	0.796	1.451
	(STRAIN)	-6.190E-05	1.322E-04	1.329E-04	-6.190E-05	-5.556E-05
2	100.00000	0.01093	12.614	12.642	0.342	0.558
	(STRAIN)	-3.732E-05	8.131E-05	8.158E-05	-3.732E-05	-3.523E-05
3	0.00000	0.02481	0.000	467.897	252.729	398.082
	(STRAIN)	9.095E-05	-3.532E-06	1.363E-04	-3.532E-06	9.095E-05
3	0.00100	0.02382	-2.029	357.746	-2.029	100.443
	(STRAIN)	-3.136E-06	-6.974E-05	1.641E-04	-6.974E-05	-3.136E-06
3	19.99900	0.02346	90.127	90.127	-290.988	-131.618
	(STRAIN)	-1.393E-04	1.085E-04	1.085E-04	-1.393E-04	-3.568E-05
3	20.00000	0.02346	90.125	90.125	-291.029	-131.635
	(STRAIN)	-1.393E-04	1.085E-04	1.085E-04	-1.393E-04	-3.568E-05
3	20.00100	0.02346	90.122	90.122	-5.956	18.217
	(STRAIN)	-1.393E-04	2.725E-04	2.725E-04	-1.393E-04	-3.569E-05
3	39.99900	0.01903	46.044	46.044	-19.570	-13.433
	(STRAIN)	-9.836E-05	1.828E-04	1.828E-04	-9.836E-05	-7.206E-05
3	40.00000	0.01903	46.043	46.043	-19.571	-13.434
	(STRAIN)	-9.836E-05	1.828E-04	1.828E-04	-9.836E-05	-7.206E-05
3	40.00100	0.01903	46.041	46.041	-4.783	-0.692
	(STRAIN)	-9.836E-05	2.284E-04	2.284E-04	-9.836E-05	-7.206E-05
3	69.99900	0.01410	21.074	21.074	-8.239	-7.233
	(STRAIN)	-6.230E-05	1.261E-04	1.261E-04	-6.230E-05	-5.583E-05
3	70.00000	0.01410	21.073	21.073	-8.239	-7.233
	(STRAIN)	-6.230E-05	1.261E-04	1.261E-04	-6.230E-05	-5.583E-05
3	70.00100	0.01410	21.073	21.073	0.798	1.467
	(STRAIN)	-6.230E-05	1.337E-04	1.337E-04	-6.230E-05	-5.583E-05
3	100.00000	0.01096	12.688	12.688	0.343	0.562
	(STRAIN)	-3.746E-05	8.187E-05	8.187E-05	-3.746E-05	-3.535E-05