

## Lampiran 7 Hasil Analisis *KENLAYER* pada Berbagai Variasi Modulus Elastisitas Pondasi Bawah

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INPUT FILE NAME -F:\College\Semester 8\Tugas Akhir\KENPAVE\3_LIME.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 : 17.5 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 17.499 17.5 17.501
37.499 37.5 37.501 67.499 67.5 67.501 100
ALL INTERFACES ARE FULLY BONDED

FOR PERIOD NO. 1 LAYER NO. AND MODULUS ARE : 1 2.000E+06 2 3.150E+05
3 1.400E+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 VERTICAL VERTICAL VERTICAL MAJOR MINOR INTERMEDIATE
NO. COORDINATE DISPL. STRESS PRINCIPAL PRINCIPAL PRINCIPAL
P. STRAIN) (STRAIN) (STRAIN) (STRAIN) (STRAIN) (STRAIN)

1 0.00000 0.02854 550.000 651.279 440.285 628.765
(STRAIN) 1.506E-04 2.814E-05 1.653E-04 2.814E-05 1.506E-04
1 0.00100 0.02901 548.493 762.587 548.491 670.603
(STRAIN) 1.386E-04 5.927E-05 1.984E-04 5.927E-05 1.386E-04
1 17.49900 0.02654 117.346 118.133 -379.098 -291.944
(STRAIN) -1.635E-04 1.592E-04 1.597E-04 -1.635E-04 -1.068E-04
1 17.50000 0.02654 117.338 118.125 -379.167 -292.001
(STRAIN) -1.635E-04 1.592E-04 1.597E-04 -1.635E-04 -1.068E-04
1 17.50100 0.02654 117.330 120.112 -8.872 1.687
(STRAIN) -1.635E-04 3.774E-04 3.893E-04 -1.635E-04 -1.182E-04
1 37.49900 0.02140 43.729 44.594 -35.880 -26.933
(STRAIN) -1.335E-04 2.077E-04 2.114E-04 -1.335E-04 -9.518E-05
1 37.50000 0.02140 43.728 44.592 -35.883 -26.935
(STRAIN) -1.335E-04 2.077E-04 2.114E-04 -1.335E-04 -9.519E-05
1 37.50100 0.02140 43.727 45.127 -2.867 0.094
(STRAIN) -1.335E-04 3.158E-04 3.293E-04 -1.335E-04 -1.050E-04
1 67.49900 0.01467 22.039 22.482 -1.492 -0.764
(STRAIN) -6.495E-05 1.620E-04 1.662E-04 -6.495E-05 -5.793E-05
1 67.50000 0.01467 22.038 22.481 -1.492 -0.764

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	(STRAIN)	-6.495E-05	1.620E-04	1.662E-04	-6.495E-05	-5.793E-05
1	67.50100	0.01467	22.038	22.540	1.273	1.938
	(STRAIN)	-6.495E-05	1.358E-04	1.406E-04	-6.495E-05	-5.852E-05
1	100.00000	0.01122	13.020	13.209	0.463	0.676
	(STRAIN)	-3.857E-05	8.282E-05	8.465E-05	-3.857E-05	-3.651E-05
2	0.00000	0.02901	550.000	607.812	346.871	532.542
	(STRAIN)	1.231E-04	2.382E-06	1.720E-04	2.382E-06	1.231E-04
2	0.00100	0.02895	556.297	795.505	556.296	664.845
	(STRAIN)	1.297E-04	5.910E-05	2.146E-04	5.910E-05	1.297E-04
2	17.49900	0.02736	105.819	105.855	-355.661	-186.706
	(STRAIN)	-1.657E-04	1.343E-04	1.343E-04	-1.657E-04	-5.588E-05
2	17.50000	0.02736	105.814	105.850	-355.720	-186.738
	(STRAIN)	-1.657E-04	1.343E-04	1.343E-04	-1.657E-04	-5.589E-05
2	17.50100	0.02736	105.810	105.929	-9.535	15.978
	(STRAIN)	-1.657E-04	3.286E-04	3.291E-04	-1.657E-04	-5.638E-05
2	37.49900	0.02222	46.859	46.975	-38.591	-29.233
	(STRAIN)	-1.422E-04	2.240E-04	2.245E-04	-1.422E-04	-1.021E-04
2	37.50000	0.02222	46.858	46.974	-38.594	-29.235
	(STRAIN)	-1.422E-04	2.240E-04	2.245E-04	-1.422E-04	-1.021E-04
2	37.50100	0.02222	46.857	47.048	-3.135	0.884
	(STRAIN)	-1.422E-04	3.398E-04	3.417E-04	-1.422E-04	-1.035E-04
2	67.49900	0.01500	23.224	23.295	-1.563	-0.802
	(STRAIN)	-6.739E-05	1.716E-04	1.723E-04	-6.739E-05	-6.006E-05
2	67.50000	0.01500	23.223	23.295	-1.563	-0.802
	(STRAIN)	-6.739E-05	1.716E-04	1.723E-04	-6.739E-05	-6.006E-05
2	67.50100	0.01500	23.223	23.304	1.300	2.049
	(STRAIN)	-6.739E-05	1.445E-04	1.453E-04	-6.739E-05	-6.015E-05
2	100.00000	0.01137	13.451	13.481	0.470	0.698
	(STRAIN)	-3.941E-05	8.608E-05	8.637E-05	-3.941E-05	-3.720E-05
3	0.00000	0.02859	0.000	527.585	252.729	444.659
	(STRAIN)	1.053E-04	-1.947E-05	1.592E-04	-1.947E-05	1.053E-04
3	0.00100	0.02760	-2.029	423.217	-2.029	137.022
	(STRAIN)	5.333E-06	-8.505E-05	1.914E-04	-8.505E-05	5.333E-06
3	17.49900	0.02738	97.281	97.281	-334.334	-127.556
	(STRAIN)	-1.626E-04	1.179E-04	1.179E-04	-1.626E-04	-2.822E-05
3	17.50000	0.02738	97.279	97.279	-334.387	-127.575
	(STRAIN)	-1.626E-04	1.179E-04	1.179E-04	-1.626E-04	-2.822E-05
3	17.50100	0.02738	97.276	97.276	-9.553	21.811
	(STRAIN)	-1.626E-04	2.952E-04	2.952E-04	-1.626E-04	-2.823E-05
3	37.49900	0.02237	47.322	47.322	-39.006	-29.395
	(STRAIN)	-1.437E-04	2.262E-04	2.262E-04	-1.437E-04	-1.026E-04
3	37.50000	0.02237	47.320	47.320	-39.009	-29.398
	(STRAIN)	-1.438E-04	2.262E-04	2.262E-04	-1.438E-04	-1.026E-04
3	37.50100	0.02237	47.319	47.319	-3.182	1.090
	(STRAIN)	-1.437E-04	3.432E-04	3.432E-04	-1.437E-04	-1.026E-04
3	67.49900	0.01506	23.448	23.448	-1.576	-0.808
	(STRAIN)	-6.786E-05	1.734E-04	1.734E-04	-6.786E-05	-6.045E-05
3	67.50000	0.01506	23.447	23.447	-1.576	-0.808
	(STRAIN)	-6.786E-05	1.734E-04	1.734E-04	-6.786E-05	-6.045E-05
3	67.50100	0.01506	23.447	23.447	1.305	2.071
	(STRAIN)	-6.785E-05	1.462E-04	1.462E-04	-6.785E-05	-6.045E-05
3	100.00000	0.01140	13.532	13.532	0.471	0.702
	(STRAIN)	-3.956E-05	8.669E-05	8.669E-05	-3.956E-05	-3.733E-05

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 37.499 37.5 37.501 67.499 67.5 67.501 100  
 ALL INTERFACES ARE FULLY BONDED

FOR PERIOD NO. 1 LAYER NO. AND MODULUS ARE : 1 2.000E+06 2 3.150E+05  
 3 3.800E+05 4 1.500E+05

LOAD GROUP NO. 1 HAS 2 CONTACT AREAS  
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 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	0.02419	550.000	602.188	440.286	584.300
	(STRAIN)	1.358E-04	4.217E-05	1.474E-04	4.217E-05	1.358E-04
1	0.00100	0.02465	548.493	711.876	548.489	627.893
	(STRAIN)	1.249E-04	7.328E-05	1.795E-04	7.328E-05	1.249E-04
1	17.49900	0.02213	127.406	127.998	-337.165	-254.052
	(STRAIN)	-1.497E-04	1.523E-04	1.527E-04	-1.497E-04	-9.565E-05
1	17.50000	0.02213	127.399	127.991	-337.228	-254.105
	(STRAIN)	-1.497E-04	1.523E-04	1.527E-04	-1.497E-04	-9.567E-05
1	17.50100	0.02213	127.390	129.372	2.889	13.608
	(STRAIN)	-1.497E-04	3.839E-04	3.924E-04	-1.497E-04	-1.038E-04
1	37.49900	0.01709	54.598	57.508	1.163	3.334
	(STRAIN)	-6.391E-05	1.651E-04	1.776E-04	-6.391E-05	-5.461E-05
1	37.50000	0.01709	54.596	57.506	1.163	3.333
	(STRAIN)	-6.391E-05	1.651E-04	1.776E-04	-6.391E-05	-5.461E-05
1	37.50100	0.01709	54.594	57.267	-4.664	-1.208
	(STRAIN)	-6.391E-05	1.466E-04	1.561E-04	-6.391E-05	-5.163E-05
1	67.49900	0.01383	20.739	20.973	-23.425	-20.397
	(STRAIN)	-6.217E-05	9.472E-05	9.555E-05	-6.217E-05	-5.142E-05
1	67.50000	0.01383	20.739	20.973	-23.426	-20.398
	(STRAIN)	-6.218E-05	9.473E-05	9.556E-05	-6.218E-05	-5.142E-05
1	67.50100	0.01383	20.739	21.243	0.992	1.686
	(STRAIN)	-6.218E-05	1.287E-04	1.336E-04	-6.218E-05	-5.546E-05
1	100.00000	0.01059	12.033	12.214	0.372	0.587
	(STRAIN)	-3.592E-05	7.679E-05	7.855E-05	-3.592E-05	-3.384E-05

2	0.00000	0.02443	550.000	553.467	346.870	483.332
	(STRAIN)	1.066E-04	1.792E-05	1.522E-04	1.792E-05	1.066E-04
2	0.00100	0.02437	556.297	740.674	556.302	615.890
	(STRAIN)	1.134E-04	7.466E-05	1.945E-04	7.467E-05	1.134E-04
2	17.49900	0.02272	117.344	117.421	-310.765	-144.632
	(STRAIN)	-1.513E-04	1.270E-04	1.270E-04	-1.513E-04	-4.331E-05
2	17.50000	0.02272	117.340	117.416	-310.818	-144.659
	(STRAIN)	-1.513E-04	1.270E-04	1.270E-04	-1.513E-04	-4.332E-05
2	17.50100	0.02272	117.340	117.565	3.425	28.406
	(STRAIN)	-1.513E-04	3.369E-04	3.379E-04	-1.513E-04	-4.426E-05
2	37.49900	0.01767	59.100	59.507	1.420	6.103
	(STRAIN)	-6.839E-05	1.788E-04	1.806E-04	-6.839E-05	-4.832E-05
2	37.50000	0.01767	59.098	59.505	1.420	6.102
	(STRAIN)	-6.839E-05	1.788E-04	1.805E-04	-6.839E-05	-4.832E-05
2	37.50100	0.01767	59.096	59.467	-4.854	0.914
	(STRAIN)	-6.839E-05	1.588E-04	1.601E-04	-6.839E-05	-4.790E-05
2	67.49900	0.01415	21.943	21.980	-24.736	-22.427
	(STRAIN)	-6.468E-05	1.011E-04	1.013E-04	-6.468E-05	-5.648E-05
2	67.50000	0.01415	21.942	21.979	-24.738	-22.428
	(STRAIN)	-6.469E-05	1.012E-04	1.013E-04	-6.469E-05	-5.648E-05
2	67.50100	0.01415	21.942	22.023	1.017	1.798
	(STRAIN)	-6.468E-05	1.376E-04	1.384E-04	-6.468E-05	-5.714E-05
2	100.00000	0.01074	12.452	12.481	0.376	0.604
	(STRAIN)	-3.675E-05	7.998E-05	8.026E-05	-3.675E-05	-3.454E-05
3	0.00000	0.02398	0.000	472.087	252.730	394.459
	(STRAIN)	8.851E-05	-3.617E-06	1.390E-04	-3.617E-06	8.851E-05
3	0.00100	0.02298	-2.029	367.578	-2.029	86.869
	(STRAIN)	-1.140E-05	-6.918E-05	1.711E-04	-6.918E-05	-1.140E-05
3	17.49900	0.02270	109.061	109.061	-288.883	-84.594
	(STRAIN)	-1.481E-04	1.106E-04	1.106E-04	-1.481E-04	-1.532E-05
3	17.50000	0.02270	109.058	109.058	-288.930	-84.606
	(STRAIN)	-1.481E-04	1.106E-04	1.106E-04	-1.481E-04	-1.532E-05
3	17.50100	0.02270	109.056	109.056	3.622	34.608
	(STRAIN)	-1.481E-04	3.037E-04	3.037E-04	-1.481E-04	-1.533E-05
3	37.49900	0.01778	59.741	59.741	1.455	6.663
	(STRAIN)	-6.916E-05	1.806E-04	1.806E-04	-6.916E-05	-4.684E-05
3	37.50000	0.01778	59.739	59.739	1.455	6.662
	(STRAIN)	-6.916E-05	1.806E-04	1.806E-04	-6.916E-05	-4.684E-05
3	37.50100	0.01778	59.737	59.737	-4.883	1.399
	(STRAIN)	-6.916E-05	1.604E-04	1.604E-04	-6.916E-05	-4.684E-05
3	67.49900	0.01421	22.168	22.168	-24.978	-22.805
	(STRAIN)	-6.514E-05	1.023E-04	1.023E-04	-6.514E-05	-5.743E-05
3	67.50000	0.01421	22.168	22.168	-24.979	-22.806
	(STRAIN)	-6.515E-05	1.023E-04	1.023E-04	-6.515E-05	-5.743E-05
3	67.50100	0.01421	22.167	22.167	1.023	1.822
	(STRAIN)	-6.514E-05	1.392E-04	1.392E-04	-6.514E-05	-5.743E-05
3	100.00000	0.01076	12.529	12.529	0.380	0.610
	(STRAIN)	-3.688E-05	8.056E-05	8.056E-05	-3.688E-05	-3.466E-05

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THICKNESSES OF LAYERS (TH) ARE : 17.5 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 17.499 17.5 17.501  
 37.499 37.5 37.501 67.499 67.5 67.501 100  
 ALL INTERFACES ARE FULLY BONDED

FOR PERIOD NO. 1 LAYER NO. AND MODULUS ARE : 1 2.000E+06 2 3.150E+05  
 3 3.500E+06 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	0.01956	550.000	659.236	583.608	647.806
	(STRAIN)	1.374E-04	9.575E-05	1.449E-04	9.575E-05	1.375E-04
1	0.00100	0.01931	548.493	645.407	548.486	572.641
	(STRAIN)	1.072E-04	9.154E-05	1.545E-04	9.154E-05	1.072E-04
1	17.49900	0.01671	142.172	142.449	-287.255	-208.810
	(STRAIN)	-1.337E-04	1.455E-04	1.456E-04	-1.337E-04	-8.268E-05
1	17.50000	0.01671	142.166	142.443	-287.312	-208.856
	(STRAIN)	-1.337E-04	1.455E-04	1.456E-04	-1.337E-04	-8.270E-05
1	17.50100	0.01671	142.157	143.019	18.189	29.272
	(STRAIN)	-1.337E-04	3.976E-04	4.013E-04	-1.337E-04	-8.619E-05
1	37.49900	0.01144	74.849	81.219	37.129	43.347
	(STRAIN)	6.112E-06	1.411E-04	1.684E-04	-2.054E-05	6.112E-06
1	37.50000	0.01144	74.846	81.217	37.130	43.351
	(STRAIN)	6.124E-06	1.411E-04	1.684E-04	-2.053E-05	6.124E-06
1	37.50100	0.01144	74.843	90.856	59.836	74.171
	(STRAIN)	6.123E-06	6.382E-06	1.256E-05	5.932E-07	6.123E-06
1	67.49900	0.01097	13.337	13.351	-134.726	-122.457
	(STRAIN)	-2.758E-05	2.953E-05	2.953E-05	-2.758E-05	-2.285E-05
1	67.50000	0.01097	13.337	13.351	-134.734	-122.465
	(STRAIN)	-2.758E-05	2.953E-05	2.953E-05	-2.758E-05	-2.285E-05
1	67.50100	0.01097	13.336	13.544	3.790	4.073
	(STRAIN)	-2.758E-05	6.470E-05	6.671E-05	-2.758E-05	-2.485E-05
1	100.00000	0.00912	8.930	9.027	1.600	1.715
	(STRAIN)	-2.156E-05	4.930E-05	5.023E-05	-2.156E-05	-2.045E-05

2	0.00000	0.01882	550.000	481.904	346.870	419.004
	(STRAIN)	8.518E-05	3.830E-05	1.261E-04	3.830E-05	8.519E-05
2	0.00100	0.01876	556.297	668.407	551.849	556.372
	(STRAIN)	9.225E-05	9.510E-05	1.680E-04	9.221E-05	9.515E-05
2	17.49900	0.01701	134.352	134.544	-257.154	-94.429
	(STRAIN)	-1.346E-04	1.199E-04	1.200E-04	-1.346E-04	-2.882E-05
2	17.50000	0.01701	134.349	134.539	-257.200	-94.449
	(STRAIN)	-1.346E-04	1.199E-04	1.200E-04	-1.346E-04	-2.883E-05
2	17.50100	0.01701	134.349	134.835	20.413	44.634
	(STRAIN)	-1.346E-04	3.537E-04	3.558E-04	-1.346E-04	-3.080E-05
2	37.49900	0.01167	82.091	83.052	46.697	47.303
	(STRAIN)	6.005E-06	1.551E-04	1.592E-04	3.404E-06	6.003E-06
2	37.50000	0.01167	82.088	83.050	46.700	47.306
	(STRAIN)	6.018E-06	1.551E-04	1.592E-04	3.412E-06	6.013E-06
2	37.50100	0.01167	82.086	88.191	76.514	78.703
	(STRAIN)	6.016E-06	7.321E-06	9.676E-06	5.172E-06	6.016E-06
2	67.49900	0.01115	13.954	13.956	-141.864	-133.212
	(STRAIN)	-2.861E-05	3.149E-05	3.150E-05	-2.861E-05	-2.527E-05
2	67.50000	0.01115	13.954	13.956	-141.873	-133.221
	(STRAIN)	-2.861E-05	3.150E-05	3.150E-05	-2.861E-05	-2.527E-05
2	67.50100	0.01115	13.954	13.987	3.897	4.209
	(STRAIN)	-2.861E-05	6.861E-05	6.893E-05	-2.861E-05	-2.560E-05
2	100.00000	0.00921	9.186	9.201	1.628	1.748
	(STRAIN)	-2.199E-05	5.107E-05	5.121E-05	-2.199E-05	-2.084E-05
3	0.00000	0.01833	0.000	398.882	252.729	328.733
	(STRAIN)	6.662E-05	1.722E-05	1.122E-04	1.722E-05	6.662E-05
3	0.00100	0.01733	-2.029	294.191	-2.029	21.198
	(STRAIN)	-3.323E-05	-4.832E-05	1.442E-04	-4.832E-05	-3.323E-05
3	17.49900	0.01694	126.469	126.469	-234.571	-33.226
	(STRAIN)	-1.313E-04	1.034E-04	1.034E-04	-1.313E-04	-3.977E-07
3	17.50000	0.01694	126.468	126.468	-234.610	-33.232
	(STRAIN)	-1.313E-04	1.034E-04	1.034E-04	-1.313E-04	-3.945E-07
3	17.50100	0.01694	126.466	126.466	20.918	51.457
	(STRAIN)	-1.313E-04	3.211E-04	3.211E-04	-1.313E-04	-4.029E-07
3	37.49900	0.01173	83.159	83.159	47.902	48.312
	(STRAIN)	5.991E-06	1.571E-04	1.571E-04	5.992E-06	7.748E-06
3	37.50000	0.01173	83.156	83.156	47.906	48.315
	(STRAIN)	6.004E-06	1.571E-04	1.571E-04	6.004E-06	7.755E-06
3	37.50100	0.01173	83.153	84.097	79.545	83.135
	(STRAIN)	6.003E-06	7.396E-06	7.760E-06	6.004E-06	7.389E-06
3	67.49900	0.01120	14.077	14.077	-143.143	-135.183
	(STRAIN)	-2.879E-05	3.185E-05	3.185E-05	-2.879E-05	-2.572E-05
3	67.50000	0.01120	14.077	14.077	-143.152	-135.192
	(STRAIN)	-2.879E-05	3.186E-05	3.186E-05	-2.879E-05	-2.572E-05
3	67.50100	0.01120	14.077	14.077	3.926	4.243
	(STRAIN)	-2.879E-05	6.934E-05	6.934E-05	-2.879E-05	-2.572E-05
3	100.00000	0.00925	9.243	9.243	1.642	1.763
	(STRAIN)	-2.207E-05	5.140E-05	5.140E-05	-2.207E-05	-2.090E-05