

Lampiran 6 Hasil Analisis *KENLAYER* pada Berbagai Variasi Modulus Elastisitas Pondasi Atas

INPUT FILE NAME -F:\College\Semester 8\Tugas Akhir\KENPAVE\2_CTB.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/m³, 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 5.000E+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	0.02438	550.000	582.824	440.285	565.108
	(STRAIN)	1.291E-04	4.795E-05	1.406E-04	4.795E-05	1.291E-04
1	0.00100	0.02488	548.493	690.420	548.493	615.890
	(STRAIN)	1.221E-04	7.830E-05	1.706E-04	7.830E-05	1.221E-04
1	17.49900	0.02237	140.073	141.350	-262.098	-197.629
	(STRAIN)	-1.226E-04	1.388E-04	1.396E-04	-1.226E-04	-8.070E-05
1	17.50000	0.02237	140.063	141.339	-262.149	-197.672
	(STRAIN)	-1.226E-04	1.388E-04	1.396E-04	-1.226E-04	-8.071E-05
1	17.50100	0.02237	140.050	143.178	-10.387	2.320
	(STRAIN)	-1.226E-04	2.836E-04	2.920E-04	-1.226E-04	-8.831E-05
1	37.49900	0.01863	45.385	46.419	-48.032	-36.707
	(STRAIN)	-1.029E-04	1.494E-04	1.522E-04	-1.029E-04	-7.228E-05
1	37.50000	0.01863	45.383	46.417	-48.036	-36.710
	(STRAIN)	-1.029E-04	1.494E-04	1.522E-04	-1.029E-04	-7.229E-05
1	37.50100	0.01863	45.382	47.151	-6.001	-2.580
	(STRAIN)	-1.029E-04	2.275E-04	2.388E-04	-1.029E-04	-8.087E-05
1	67.49900	0.01385	20.225	20.557	-8.179	-6.810
	(STRAIN)	-6.186E-05	1.207E-04	1.229E-04	-6.186E-05	-5.306E-05
1	67.50000	0.01385	20.225	20.557	-8.180	-6.811

	(STRAIN)	-6.186E-05	1.207E-04	1.229E-04	-6.186E-05	-5.306E-05
1	67.50100	0.01385	20.225	20.698	0.602	1.260
	(STRAIN)	-6.186E-05	1.278E-04	1.324E-04	-6.186E-05	-5.550E-05
1	100.00000	0.01065	11.865	12.034	0.307	0.504
	(STRAIN)	-3.557E-05	7.616E-05	7.779E-05	-3.557E-05	-3.366E-05
2	0.00000	0.02460	550.000	534.081	346.871	469.804
	(STRAIN)	1.028E-04	2.285E-05	1.445E-04	2.285E-05	1.028E-04
2	0.00100	0.02454	556.297	718.533	556.298	608.315
	(STRAIN)	1.129E-04	7.912E-05	1.846E-04	7.912E-05	1.129E-04
2	17.49900	0.02295	121.478	121.654	-240.521	-103.462
	(STRAIN)	-1.230E-04	1.123E-04	1.124E-04	-1.230E-04	-3.390E-05
2	17.50000	0.02295	121.472	121.647	-240.565	-103.485
	(STRAIN)	-1.230E-04	1.123E-04	1.124E-04	-1.230E-04	-3.390E-05
2	17.50100	0.02295	121.467	121.860	-11.421	21.225
	(STRAIN)	-1.230E-04	2.358E-04	2.369E-04	-1.230E-04	-3.486E-05
2	37.49900	0.01928	48.648	48.782	-51.535	-39.307
	(STRAIN)	-1.097E-04	1.608E-04	1.612E-04	-1.097E-04	-7.669E-05
2	37.50000	0.01928	48.646	48.780	-51.538	-39.310
	(STRAIN)	-1.097E-04	1.608E-04	1.612E-04	-1.097E-04	-7.669E-05
2	37.50100	0.01928	48.645	48.880	-6.453	-1.497
	(STRAIN)	-1.097E-04	2.445E-04	2.460E-04	-1.097E-04	-7.784E-05
2	67.49900	0.01415	21.321	21.374	-8.610	-7.439
	(STRAIN)	-6.423E-05	1.282E-04	1.285E-04	-6.423E-05	-5.669E-05
2	67.50000	0.01415	21.320	21.373	-8.611	-7.439
	(STRAIN)	-6.423E-05	1.282E-04	1.285E-04	-6.423E-05	-5.669E-05
2	67.50100	0.01415	21.320	21.396	0.594	1.332
	(STRAIN)	-6.423E-05	1.361E-04	1.369E-04	-6.423E-05	-5.709E-05
2	100.00000	0.01078	12.248	12.275	0.306	0.516
	(STRAIN)	-3.633E-05	7.911E-05	7.937E-05	-3.633E-05	-3.431E-05
3	0.00000	0.02414	0.000	454.118	252.729	384.849
	(STRAIN)	8.640E-05	5.196E-07	1.314E-04	5.196E-07	8.640E-05
3	0.00100	0.02314	-2.029	345.991	-2.029	81.687
	(STRAIN)	-1.075E-05	-6.517E-05	1.610E-04	-6.517E-05	-1.075E-05
3	17.49900	0.02293	109.012	109.012	-223.158	-52.861
	(STRAIN)	-1.200E-04	9.591E-05	9.591E-05	-1.200E-04	-9.308E-06
3	17.50000	0.02293	109.009	109.009	-223.196	-52.874
	(STRAIN)	-1.200E-04	9.591E-05	9.591E-05	-1.200E-04	-9.309E-06
3	17.50100	0.02293	109.006	109.006	-11.547	29.452
	(STRAIN)	-1.200E-04	2.055E-04	2.055E-04	-1.200E-04	-9.316E-06
3	37.49900	0.01940	49.082	49.082	-52.047	-39.388
	(STRAIN)	-1.109E-04	1.622E-04	1.622E-04	-1.109E-04	-7.670E-05
3	37.50000	0.01940	49.080	49.080	-52.051	-39.391
	(STRAIN)	-1.109E-04	1.622E-04	1.622E-04	-1.109E-04	-7.670E-05
3	37.50100	0.01940	49.079	49.079	-6.533	-1.216
	(STRAIN)	-1.109E-04	2.466E-04	2.466E-04	-1.109E-04	-7.670E-05
3	67.49900	0.01421	21.526	21.526	-8.691	-7.557
	(STRAIN)	-6.467E-05	1.296E-04	1.296E-04	-6.467E-05	-5.738E-05
3	67.50000	0.01421	21.526	21.526	-8.691	-7.557
	(STRAIN)	-6.467E-05	1.296E-04	1.296E-04	-6.467E-05	-5.738E-05
3	67.50100	0.01421	21.525	21.525	0.592	1.347
	(STRAIN)	-6.467E-05	1.377E-04	1.377E-04	-6.467E-05	-5.737E-05
3	100.00000	0.01081	12.319	12.319	0.307	0.519
	(STRAIN)	-3.647E-05	7.965E-05	7.965E-05	-3.647E-05	-3.442E-05

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1	0.00000	0.02311	550.000	656.747	583.625	641.322
	(STRAIN)	1.346E-04	9.710E-05	1.446E-04	9.710E-05	1.346E-04
1	0.00100	0.02295	548.493	643.110	548.495	582.259
	(STRAIN)	1.124E-04	9.044E-05	1.519E-04	9.044E-05	1.124E-04
1	17.49900	0.02042	160.360	162.508	-162.973	-119.195
	(STRAIN)	-8.798E-05	1.222E-04	1.236E-04	-8.798E-05	-5.953E-05
1	17.50000	0.02042	160.348	162.496	-163.009	-119.225
	(STRAIN)	-8.799E-05	1.222E-04	1.236E-04	-8.799E-05	-5.954E-05
1	17.50100	0.02042	160.340	164.120	-12.438	1.474
	(STRAIN)	-8.800E-05	2.036E-04	2.099E-04	-8.800E-05	-6.452E-05
1	37.49900	0.01772	41.502	42.133	-84.623	-67.131
	(STRAIN)	-9.484E-05	1.180E-04	1.191E-04	-9.484E-05	-6.532E-05
1	37.50000	0.01772	41.501	42.131	-84.630	-67.136
	(STRAIN)	-9.485E-05	1.180E-04	1.191E-04	-9.485E-05	-6.533E-05
1	37.50100	0.01772	41.499	43.055	-5.735	-2.533
	(STRAIN)	-9.484E-05	2.088E-04	2.188E-04	-9.484E-05	-7.427E-05
1	67.49900	0.01334	18.703	18.993	-7.383	-6.164
	(STRAIN)	-5.654E-05	1.112E-04	1.130E-04	-5.654E-05	-4.870E-05
1	67.50000	0.01334	18.703	18.993	-7.383	-6.164
	(STRAIN)	-5.654E-05	1.112E-04	1.130E-04	-5.654E-05	-4.870E-05
1	67.50100	0.01334	18.702	19.117	0.703	1.292
	(STRAIN)	-5.654E-05	1.175E-04	1.215E-04	-5.654E-05	-5.085E-05
1	100.00000	0.01038	11.175	11.324	0.394	0.570
	(STRAIN)	-3.305E-05	7.116E-05	7.260E-05	-3.305E-05	-3.135E-05

2	0.00000	0.02251	550.000	487.739	346.871	432.117
	(STRAIN)	9.087E-05	3.546E-05	1.270E-04	3.546E-05	9.087E-05
2	0.00100	0.02246	556.297	669.040	556.314	577.527
	(STRAIN)	1.050E-04	9.116E-05	1.644E-04	9.117E-05	1.050E-04
2	17.49900	0.02089	132.096	132.626	-147.303	-42.910
	(STRAIN)	-8.711E-05	9.450E-05	9.484E-05	-8.711E-05	-1.925E-05
2	17.50000	0.02089	132.089	132.618	-147.333	-42.927
	(STRAIN)	-8.712E-05	9.450E-05	9.485E-05	-8.712E-05	-1.926E-05
2	17.50100	0.02089	132.082	132.948	-14.338	25.212
	(STRAIN)	-8.712E-05	1.600E-04	1.614E-04	-8.712E-05	-2.038E-05
2	37.49900	0.01830	44.272	44.351	-90.559	-72.097
	(STRAIN)	-1.011E-04	1.265E-04	1.266E-04	-1.011E-04	-6.991E-05
2	37.50000	0.01830	44.271	44.349	-90.566	-72.103
	(STRAIN)	-1.011E-04	1.265E-04	1.266E-04	-1.011E-04	-6.991E-05
2	37.50100	0.01830	44.269	44.470	-6.193	-1.526
	(STRAIN)	-1.011E-04	2.233E-04	2.246E-04	-1.011E-04	-7.106E-05
2	67.49900	0.01361	19.666	19.713	-7.768	-6.723
	(STRAIN)	-5.864E-05	1.177E-04	1.180E-04	-5.864E-05	-5.192E-05
2	67.50000	0.01361	19.666	19.712	-7.768	-6.724
	(STRAIN)	-5.864E-05	1.177E-04	1.180E-04	-5.864E-05	-5.192E-05
2	67.50100	0.01361	19.665	19.732	0.691	1.350
	(STRAIN)	-5.864E-05	1.248E-04	1.254E-04	-5.864E-05	-5.227E-05
2	100.00000	0.01050	11.515	11.539	0.394	0.580
	(STRAIN)	-3.373E-05	7.377E-05	7.400E-05	-3.373E-05	-3.193E-05
3	0.00000	0.02204	0.000	409.175	252.729	351.191
	(STRAIN)	7.631E-05	1.231E-05	1.140E-04	1.231E-05	7.631E-05
3	0.00100	0.02104	-2.029	296.874	-2.029	53.311
	(STRAIN)	-1.757E-05	-5.354E-05	1.407E-04	-5.354E-05	-1.757E-05
3	17.49900	0.02087	114.653	114.653	-135.386	-3.225
	(STRAIN)	-8.441E-05	7.812E-05	7.812E-05	-8.441E-05	1.498E-06
3	17.50000	0.02087	114.649	114.649	-135.413	-3.236
	(STRAIN)	-8.442E-05	7.812E-05	7.812E-05	-8.442E-05	1.496E-06
3	17.50100	0.02087	114.646	114.646	-14.753	36.154
	(STRAIN)	-8.442E-05	1.339E-04	1.339E-04	-8.442E-05	1.490E-06
3	37.49900	0.01841	44.607	44.607	-91.373	-72.266
	(STRAIN)	-1.021E-04	1.274E-04	1.274E-04	-1.021E-04	-6.987E-05
3	37.50000	0.01841	44.606	44.606	-91.380	-72.271
	(STRAIN)	-1.021E-04	1.274E-04	1.274E-04	-1.021E-04	-6.988E-05
3	37.50100	0.01841	44.604	44.604	-6.273	-1.258
	(STRAIN)	-1.021E-04	2.250E-04	2.250E-04	-1.021E-04	-6.987E-05
3	67.49900	0.01366	19.846	19.846	-7.840	-6.828
	(STRAIN)	-5.903E-05	1.189E-04	1.189E-04	-5.903E-05	-5.252E-05
3	67.50000	0.01366	19.845	19.845	-7.840	-6.828
	(STRAIN)	-5.903E-05	1.189E-04	1.189E-04	-5.903E-05	-5.252E-05
3	67.50100	0.01366	19.845	19.845	0.688	1.361
	(STRAIN)	-5.903E-05	1.261E-04	1.261E-04	-5.903E-05	-5.252E-05
3	100.00000	0.01052	11.576	11.576	0.395	0.582
	(STRAIN)	-3.384E-05	7.424E-05	7.424E-05	-3.384E-05	-3.203E-05

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FOR PERIOD NO. 1 LAYER NO. AND MODULUS ARE : 1 2.000E+06 2 3.500E+06
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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	0.01850	550.000	583.627	534.919	544.875
	(STRAIN)	9.816E-05	1.298E-04	1.298E-04	9.818E-05	1.047E-04
1	0.00100	0.01845	548.493	548.526	500.103	528.679
	(STRAIN)	8.846E-05	1.199E-04	1.199E-04	8.847E-05	1.070E-04
1	17.49900	0.01580	222.690	228.205	68.032	68.441
	(STRAIN)	-1.021E-05	9.005E-05	9.363E-05	-1.048E-05	-1.021E-05
1	17.50000	0.01580	222.671	228.188	68.034	68.444
	(STRAIN)	-1.021E-05	9.004E-05	9.362E-05	-1.048E-05	-1.021E-05
1	17.50100	0.01580	222.661	228.341	69.533	72.455
	(STRAIN)	-1.021E-05	4.885E-05	5.104E-05	-1.021E-05	-9.086E-06
1	37.49900	0.01496	28.269	28.361	-252.085	-209.887
	(STRAIN)	-5.387E-05	5.426E-05	5.430E-05	-5.387E-05	-3.760E-05
1	37.50000	0.01496	28.268	28.360	-252.108	-209.906
	(STRAIN)	-5.388E-05	5.427E-05	5.430E-05	-5.388E-05	-3.760E-05
1	37.50100	0.01496	28.267	29.070	-0.819	0.916
	(STRAIN)	-5.387E-05	1.331E-04	1.383E-04	-5.387E-05	-4.272E-05
1	67.49900	0.01195	14.625	14.793	-4.235	-3.499
	(STRAIN)	-3.899E-05	8.225E-05	8.333E-05	-3.899E-05	-3.426E-05
1	67.50000	0.01195	14.625	14.793	-4.235	-3.500
	(STRAIN)	-3.899E-05	8.225E-05	8.333E-05	-3.899E-05	-3.426E-05
1	67.50100	0.01195	14.624	14.869	1.824	2.180
	(STRAIN)	-3.899E-05	8.475E-05	8.712E-05	-3.899E-05	-3.555E-05
1	100.00000	0.00968	9.480	9.580	0.879	0.997
	(STRAIN)	-2.587E-05	5.728E-05	5.824E-05	-2.587E-05	-2.473E-05

2	0.00000	0.01745	550.000	361.419	328.920	331.990
	(STRAIN)	6.248E-05	6.042E-05	8.157E-05	6.045E-05	6.244E-05
2	0.00100	0.01765	556.297	556.190	509.049	552.368
	(STRAIN)	8.825E-05	1.190E-04	1.189E-04	8.824E-05	1.164E-04
2	17.49900	0.01608	162.096	167.564	57.730	79.387
	(STRAIN)	-8.178E-06	5.966E-05	6.321E-05	-8.178E-06	5.899E-06
2	17.50000	0.01608	162.087	167.554	57.731	79.380
	(STRAIN)	-8.175E-06	5.966E-05	6.321E-05	-8.175E-06	5.897E-06
2	17.50100	0.01608	162.078	170.073	67.849	105.548
	(STRAIN)	-8.177E-06	2.817E-05	3.125E-05	-8.177E-06	6.364E-06
2	37.49900	0.01533	29.814	29.826	-267.594	-223.004
	(STRAIN)	-5.714E-05	5.758E-05	5.758E-05	-5.714E-05	-3.994E-05
2	37.50000	0.01533	29.814	29.825	-267.619	-223.023
	(STRAIN)	-5.714E-05	5.758E-05	5.759E-05	-5.714E-05	-3.994E-05
2	37.50100	0.01533	29.813	29.913	-0.967	1.609
	(STRAIN)	-5.714E-05	1.407E-04	1.414E-04	-5.714E-05	-4.058E-05
2	67.49900	0.01214	15.242	15.269	-4.445	-3.824
	(STRAIN)	-4.024E-05	8.632E-05	8.649E-05	-4.024E-05	-3.625E-05
2	67.50000	0.01214	15.242	15.269	-4.445	-3.824
	(STRAIN)	-4.024E-05	8.632E-05	8.649E-05	-4.024E-05	-3.625E-05
2	67.50100	0.01214	15.242	15.281	1.848	2.240
	(STRAIN)	-4.024E-05	8.923E-05	8.961E-05	-4.024E-05	-3.646E-05
2	100.00000	0.00978	9.721	9.737	0.889	1.011
	(STRAIN)	-2.632E-05	5.906E-05	5.921E-05	-2.632E-05	-2.513E-05
3	0.00000	0.01666	0.000	249.714	188.191	234.667
	(STRAIN)	5.164E-05	2.144E-05	6.143E-05	2.144E-05	5.165E-05
3	0.00100	0.01618	-2.029	182.103	-6.887	-2.029
	(STRAIN)	-3.045E-05	-2.730E-05	9.239E-05	-3.045E-05	-2.730E-05
3	17.49900	0.01608	128.166	128.166	51.355	88.559
	(STRAIN)	-6.831E-06	4.310E-05	4.310E-05	-6.831E-06	1.735E-05
3	17.50000	0.01608	128.163	128.163	51.354	88.545
	(STRAIN)	-6.829E-06	4.310E-05	4.310E-05	-6.829E-06	1.734E-05
3	17.50100	0.01608	128.159	128.645	65.969	128.153
	(STRAIN)	-6.831E-06	1.716E-05	1.734E-05	-6.831E-06	1.715E-05
3	37.49900	0.01539	29.982	29.982	-269.452	-223.067
	(STRAIN)	-5.768E-05	5.782E-05	5.782E-05	-5.768E-05	-3.979E-05
3	37.50000	0.01539	29.981	29.981	-269.476	-223.086
	(STRAIN)	-5.768E-05	5.782E-05	5.782E-05	-5.768E-05	-3.979E-05
3	37.50100	0.01539	29.981	29.981	-0.993	1.790
	(STRAIN)	-5.768E-05	1.414E-04	1.414E-04	-5.768E-05	-3.979E-05
3	67.49900	0.01217	15.352	15.352	-4.485	-3.884
	(STRAIN)	-4.047E-05	8.705E-05	8.705E-05	-4.047E-05	-3.661E-05
3	67.50000	0.01217	15.352	15.352	-4.485	-3.885
	(STRAIN)	-4.047E-05	8.705E-05	8.705E-05	-4.047E-05	-3.661E-05
3	67.50100	0.01217	15.352	15.352	1.850	2.250
	(STRAIN)	-4.047E-05	9.005E-05	9.005E-05	-4.047E-05	-3.661E-05
3	100.00000	0.00980	9.759	9.759	0.891	1.015
	(STRAIN)	-2.638E-05	5.934E-05	5.934E-05	-2.638E-05	-2.519E-05