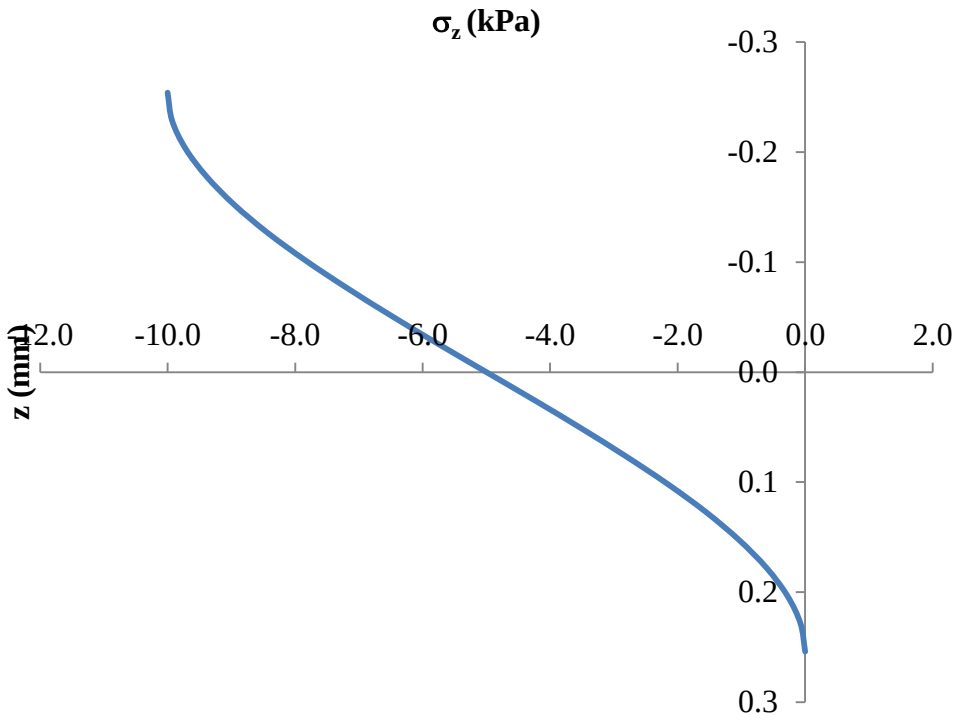
Test Case A

[0/90/90/0] Laminate Sine Load qo=10 kPa
Center of the Plate a=10cm b=10cm



z(mm)	σ_z(kPa)
-0.25	-10.00
-0.23	-9.93
-0.20	-9.72
-0.18	-9.39
-0.15	-8.96
-0.13	-8.44
-0.10	-7.84
-0.08	-7.18
-0.05	-6.48
-0.03	-5.75
0.00	-5.00
0.03	-4.25
0.05	-3.52
0.08	-2.82
0.10	-2.16
0.13	-1.56
0.15	-1.04
0.18	-0.61
0.20	-0.28
0.23	-0.07
0.25	0.00

w	phix	phiy
0.491348E-02	-0.943526E-17	-0.944530E-17

ply	Location	σ_x	σ_y	τ_{xy}	τ_{xz}	τ_{yz}	σ_z
1	TOP	-1.95E+08	-1.87E+07	-4.06E-26	0.00E+00	0.00E+00	-1.00E+04
1	BOTTOM	-9.76E+07	-9.34E+06	-2.03E-26	3.78E-11	5.41E-12	-8.44E+03
2	TOP	-9.33E+06	-9.77E+07	-2.03E-26	3.78E-11	5.41E-12	-8.44E+03
2	BOTTOM	0.00E+00	0.00E+00	0.00E+00	3.96E-11	1.80E-11	-5.00E+03
3	TOP	0.00E+00	0.00E+00	0.00E+00	3.96E-11	1.80E-11	-5.00E+03
3	BOTTOM	9.33E+06	9.77E+07	2.03E-26	3.78E-11	5.41E-12	-1.56E+03
4	TOP	9.76E+07	9.34E+06	2.03E-26	3.78E-11	5.41E-12	-1.56E+03
4	BOTTOM	1.95E+08	1.87E+07	4.06E-26	1.33E-28	3.12E-29	1.86E-10

Test Case B

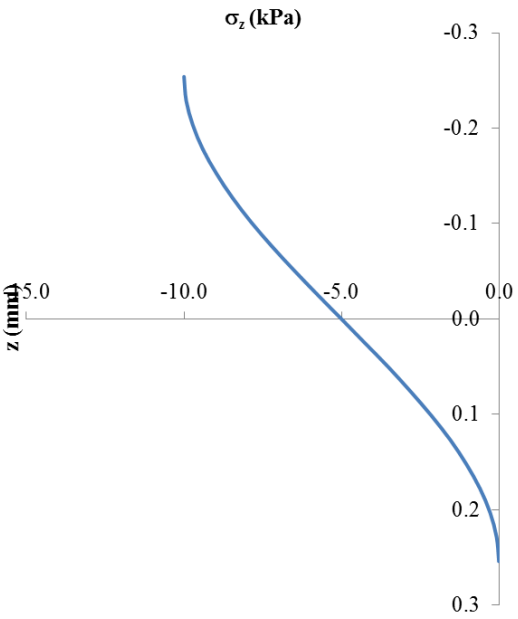
Uniform Load	
a	0.100
b	0.100
x	0.025
y	0.025
po	10000

ply	Location	σ_x	σ_y	τ_{xy}	τ_{xz}	τ_{yz}	σ_z
1	TOP	-1.69E+08	-1.72E+07	8.10E+06	0.00E+00	0.00E+00	-1.00E+04
1	BOTTOM	-8.44E+07	-8.61E+06	4.05E+06	4.20E+05	4.17E+04	-8.46E+03
2	TOP	-8.19E+06	-9.14E+07	4.05E+06	4.20E+05	4.17E+04	-8.46E+03
2	BOTTOM	0.00E+00	0.00E+00	0.00E+00	4.43E+05	9.07E+04	-5.00E+03
3	TOP	0.00E+00	0.00E+00	0.00E+00	4.43E+05	9.07E+04	-5.00E+03
3	BOTTOM	8.19E+06	9.14E+07	-4.05E+06	4.20E+05	4.17E+04	-1.54E+03
4	TOP	8.44E+07	8.61E+06	-4.05E+06	4.20E+05	4.17E+04	-1.54E+03
4	BOTTOM	1.69E+08	1.72E+07	-8.10E+06	-1.27E-11	8.03E-12	-4.50E+00

w	phix	phiy
4.09E-03	-1.25E-01	-1.16E-01

ε_{x1}	ε_{y1}	γ_{xy1}
4.18E+00	4.54E+00	-7.25E+00

[0/90/90/0] Laminate
Uniform Load qo=10 kPa
x=2.5 cm y=2.5 cm a=10cm b=10cm



z(mm)	σ_z(kPa)	τ_{xz}(kPa)	τ_{yz}(kPa)
-0.25	-10.00	0.00	0.00
-0.23	-9.93	106.29	10.57
-0.20	-9.72	201.40	20.02
-0.18	-9.40	285.31	28.37
-0.15	-8.97	358.04	35.60
-0.13	-8.46	419.58	41.71
-0.10	-7.87	427.91	59.36
-0.08	-7.21	434.39	73.09
-0.05	-6.50	439.02	82.90
-0.03	-5.76	441.79	88.78
0.00	-5.00	442.72	90.75
0.03	-4.25	441.79	88.78
0.05	-3.50	439.02	82.90
0.08	-2.80	434.39	73.09
0.10	-2.14	427.91	59.36
0.13	-1.54	419.58	41.71
0.15	-1.03	358.04	35.60
0.18	-0.60	285.31	28.37
0.20	-0.28	201.40	20.02
0.23	-0.08	106.29	10.57
0.25	0.00	0.00	0.00

Case B Continued