

The Effective Stiffness Matrix

1.4017408E+11	3.3531783E+09	3.3530818E+09	-4.8885092E-08	0.0000000E+00	0.0000000E+00
3.3531783E+09	1.0225516E+10	2.8252258E+09	-8.2250350E-07	0.0000000E+00	0.0000000E+00
3.3530818E+09	2.8252258E+09	1.0228472E+10	1.7178992E-08	0.0000000E+00	0.0000000E+00
-4.8885092E-08	-8.2250350E-07	1.7178992E-08	2.9362487E+09	0.0000000E+00	0.0000000E+00
0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	4.4658262E+09	-3.0023383E-06
0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	-3.0023383E-06	4.4629203E+09

The Effective Compliance Matrix

7.2227598E-12	-1.8559528E-12	-1.8551177E-12	-3.8878633E-28	0.0000000E+00	0.0000000E+00
-1.8559528E-12	1.0635129E-10	-2.8767079E-11	2.9928586E-26	0.0000000E+00	0.0000000E+00
-1.8551177E-12	-2.8767079E-11	1.0632027E-10	-8.7111784E-27	0.0000000E+00	0.0000000E+00
-3.8878633E-28	2.9928586E-26	-8.7111784E-27	3.4057061E-10	0.0000000E+00	0.0000000E+00
0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	2.2392273E-10	1.5063943E-25
0.0000000E+00	0.0000000E+00	0.0000000E+00	0.0000000E+00	1.5063943E-25	2.2406853E-10

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The Engineering Constants (Approximated as Orthotropic)

- E1 = 1.3845123E+11
- E2 = 9.4028007E+09
- E3 = 9.4055443E+09
- G12 = 4.4629203E+09
- G13 = 4.4658262E+09
- G23 = 2.9362487E+09
- nu12= 2.5695895E-01
- nu13= 2.5684333E-01
- nu23= 2.7049111E-01

Effective Density = 0.0000000E+00