

Test Case Scenarios

Test Case #1

1. Exit material selection menu.
2. Exit material selection menu again.
3. Select Graphene from menu.
4. Enter the length of the beam: -6
5. Reenter the beam length: -6
6. Reenter the beam length: -6
7. Enter the beam width: -2
8. Reenter beam width: 2
9. Enter the beam height: 0
10. Reenter beam height: 0
11. Reenter beam height: 0

Datasets used: MaterialElasticity_1.csv

Test Case #2

1. Choose Inconel Alloy from the material selection menu.
2. Enter the beam length: 10
3. Enter beam width: 0.2
4. Enter beam height: 0.2
5. Enter a concentrated force: 1600
6. Enter location of the force on the beam: 7
7. Enter vector of multiple concentrated forces: [700, 700, 700]
8. Enter vector of force locations: [2, 4, 5]
9. When prompted to repeat the multiple force calculation, select Yes.
10. Enter vector of multiple concentrated forces: [1500, 1200]
11. Enter vector of force locations: [5, 7]
12. When prompted to repeat, select No.

Datasets used: MaterialElasticity_2.csv