

Jacob Roth

Morning Glory Flower Simulation Model

We're going to simulate a rod as a chain of linked units. Each unit will have:

- A defined natural length l_0
- A defined natural rotation relative to the previous unit ψ_0
- A defined natural bend relative to the previous unit α_0
- A Young's Modulus E
- an area A

From these things it's possible to calculate:

- The spring constant $k = \frac{EA}{l_0}$