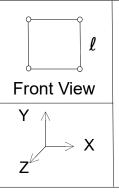
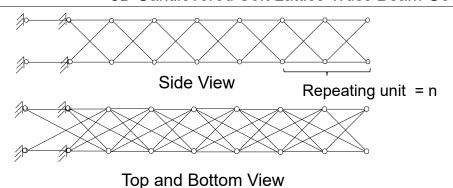
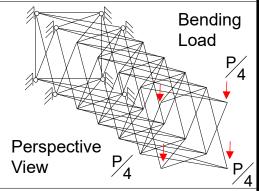
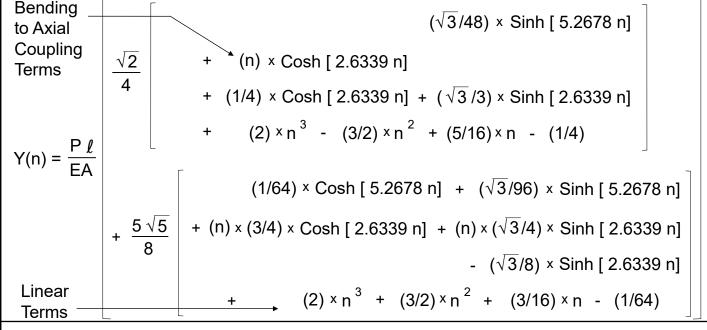
## 3D Cantilevered Soft Lattice Truss Beam Geometry







## Numerical Bending Deflection Expression



Isolat	ted strai	n values
per u	nit (E =	A = 1

Unit	$\sqrt{2}$ Short members	$\sqrt{5}$ Long members
1	1	0
2	9	16
3	105	256
4	1425	3616
5	19793	50431

Notice the dramatic increase in strain values as the number of truss units increase. This factor leads to an exponential bending displacement expression.

Exponential displacement equation for a 3D cantilevered soft truss beam with a bending end load.