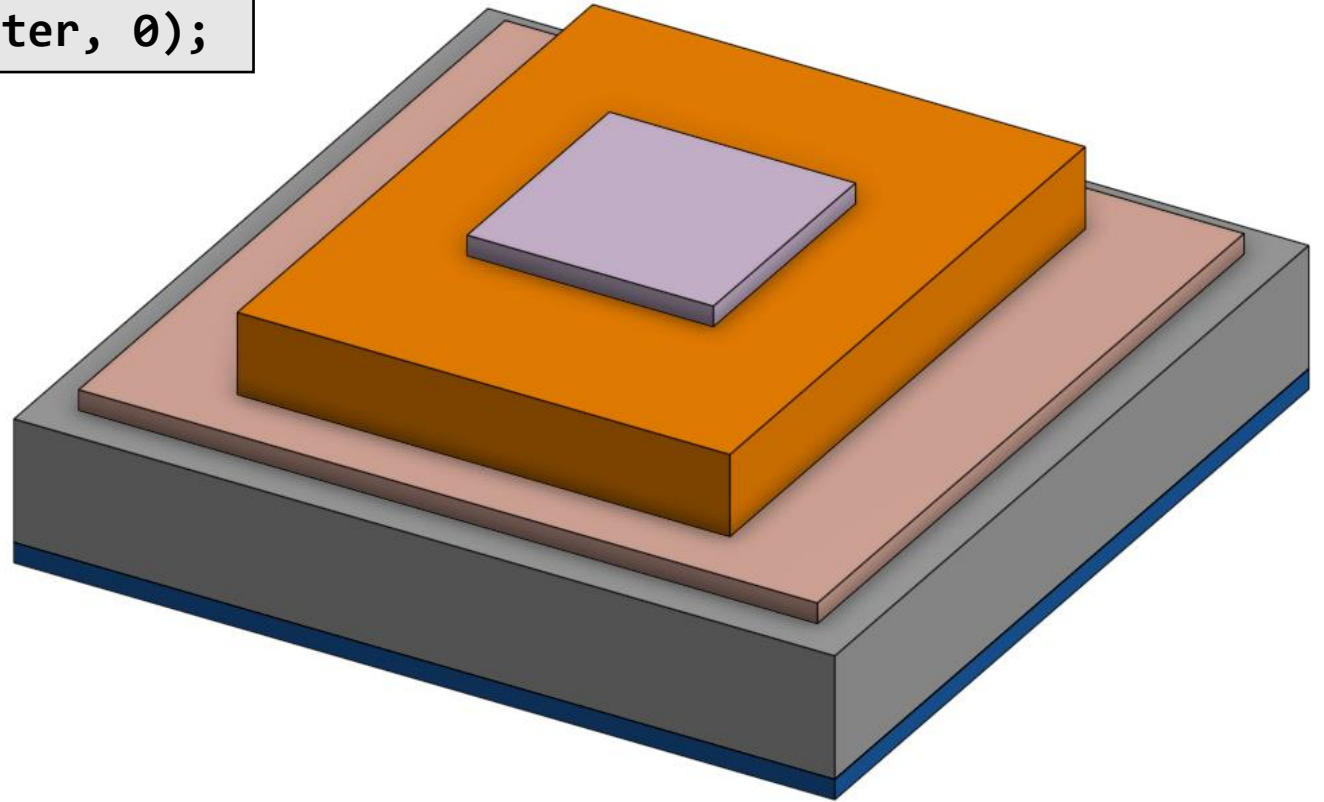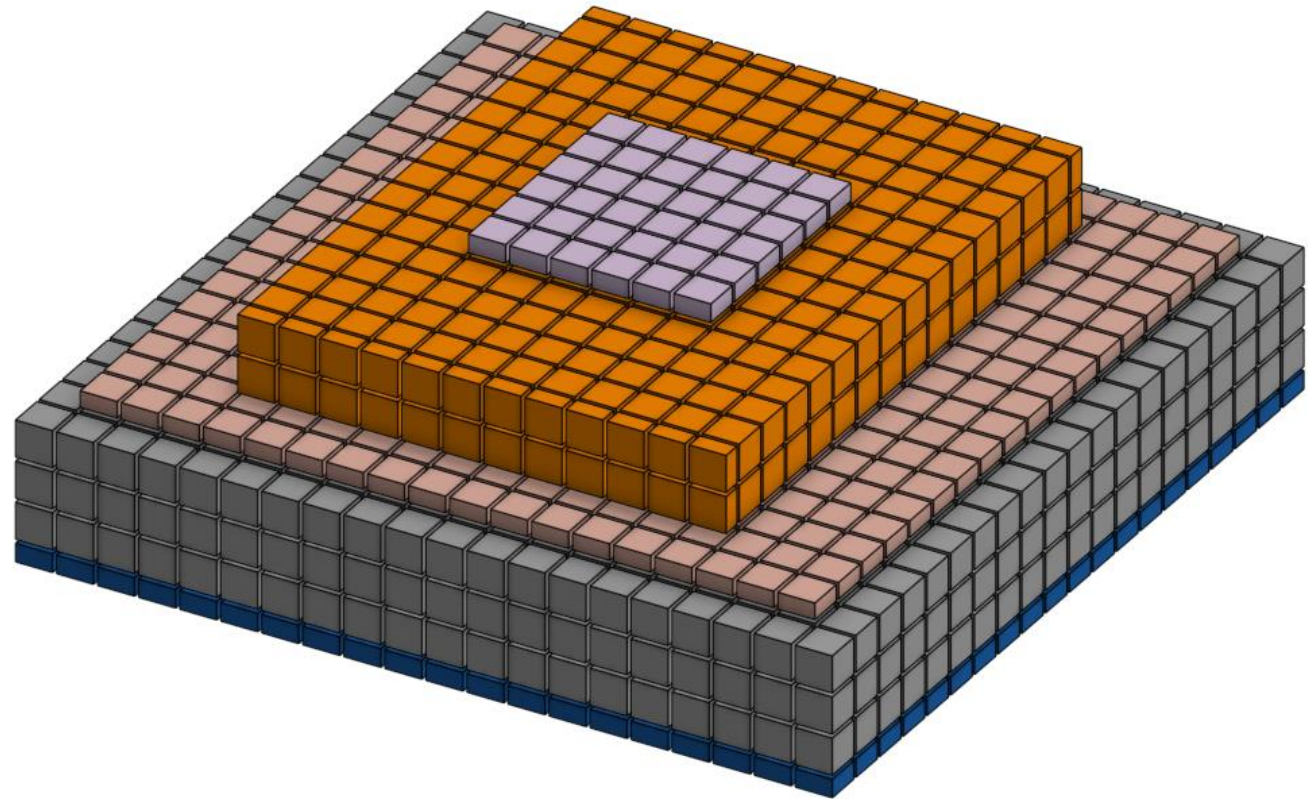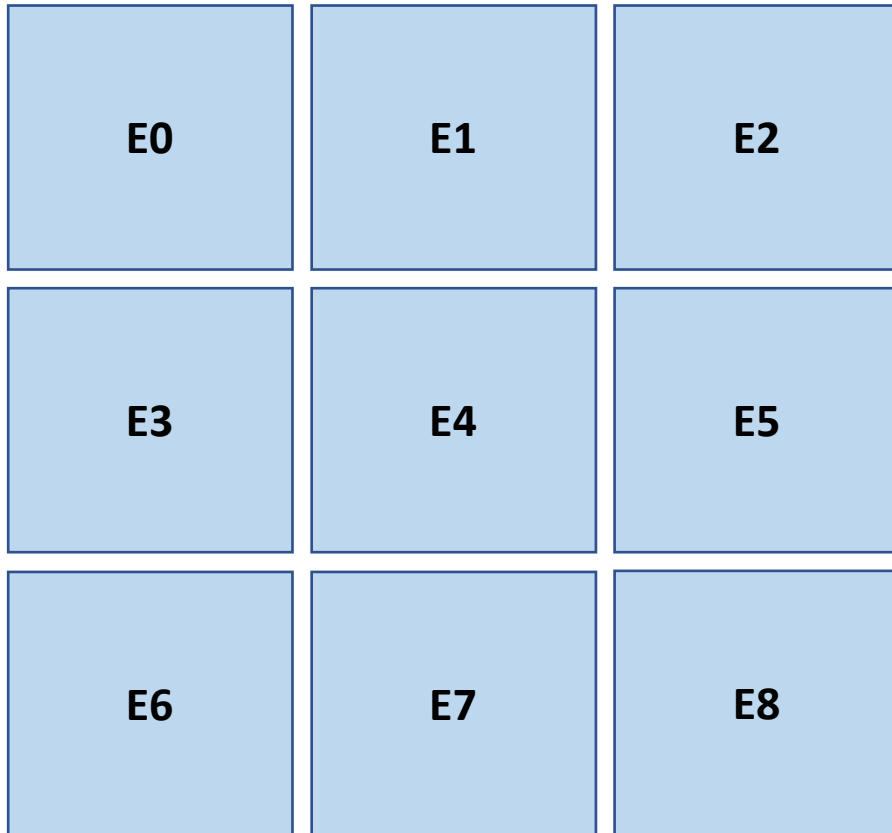# ThermalStackFEA

Nathan Chung

May 12, 2018

```
myStack.addBlock(5, 5, 0.5, silicon, 100);
myStack.addBlock(12, 15, 2, copper, 0);
myStack.addBlock(18, 18, 0.5, tim, 0);
myStack.addBlock(20, 20, 3, aluminum, 0);
myStack.addBlock(20, 20, meshSize, water, 0);
```
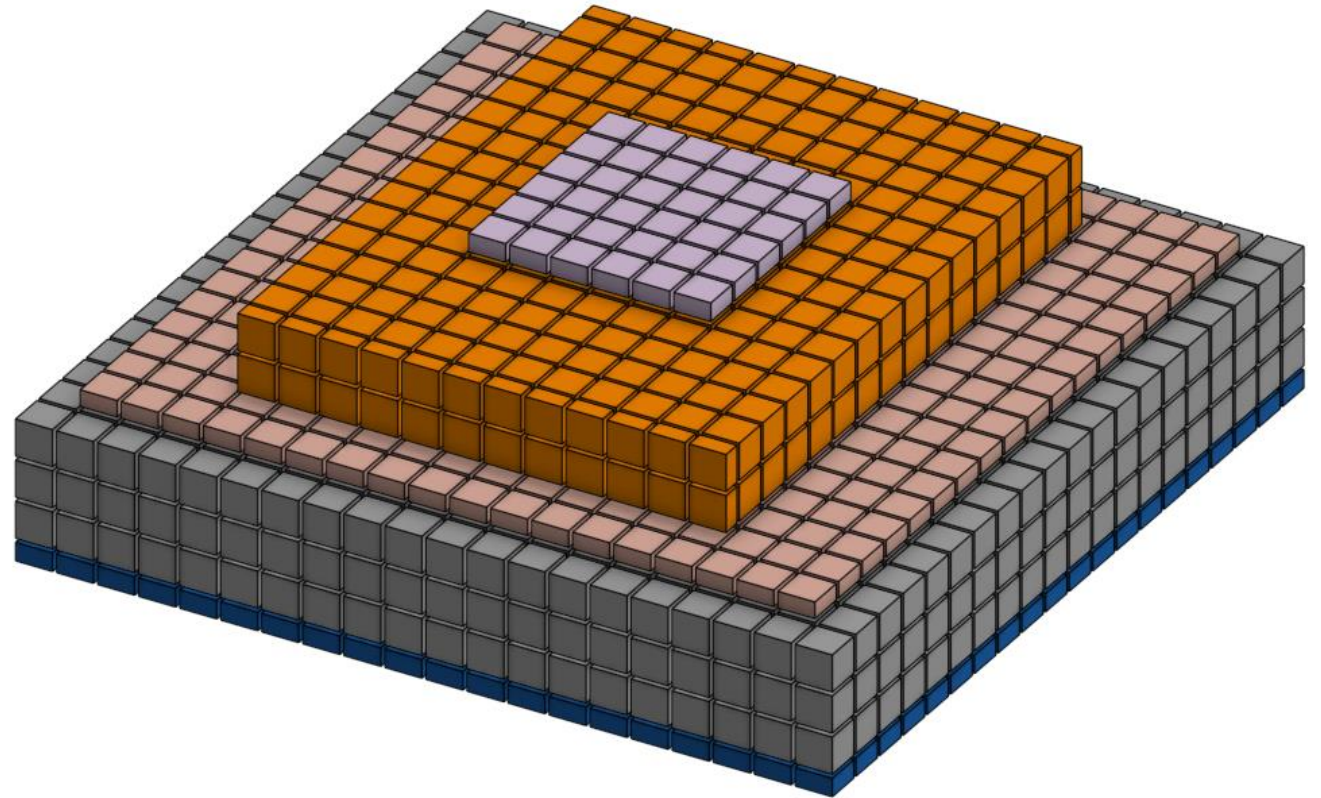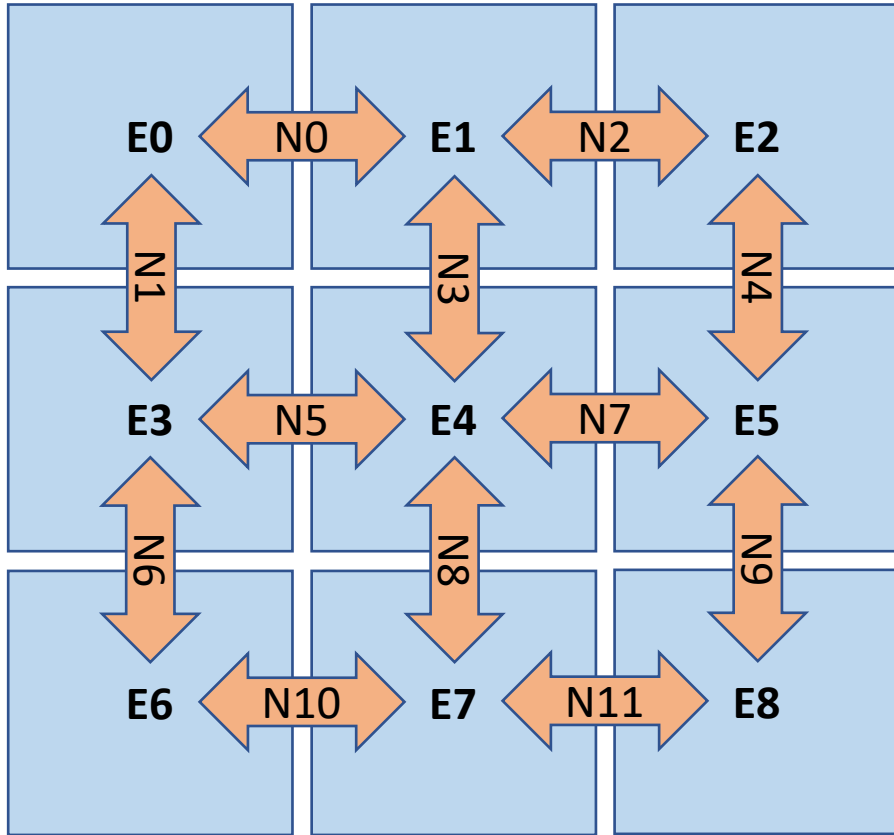

ThermalStackFEA does not output 3D models
3D models shown were created for illustration purposes only

```
myStack.mesh();
// ThermalStack::initElementArray()
// ThermalStack::genMeshElements()
```

E0	E1	E2
E3	E4	E5
E6	E7	E8

ThermalStackFEA does not output 3D models
3D models shown were created for illustration purposes only

```
myStack.mesh();
// ThermalStack::genMeshNodes()
```

E0 ← N0 → E1 ← N2 → E2

N1 ↕   N3 ↕   N4 ↕

E3 ← N5 → E4 ← N7 → E5

N6 ↕   N8 ↕   N9 ↕

E6 ← N10 → E7 ← N11 → E8

ThermalStackFEA does not output 3D models
3D models shown were created for illustration purposes only

```
myStack.solve();
```
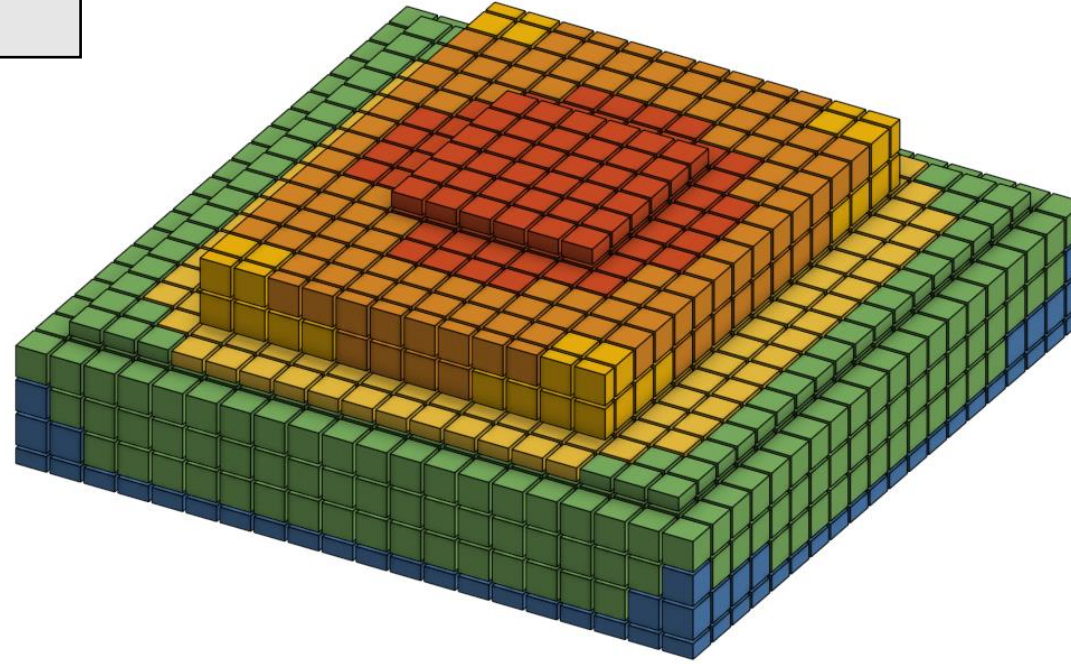
N0	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11

Calculate Physics/Element Interactions →

Apply Element Interactions

Time Step

ThermalStackFEA does not output 3D models
3D models shown were created for illustration purposes only