

# springs-helper

April 22, 2024

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[1]: K3 = makeK([ 9.7* 10**6 if i in [1,3,4,6,9,12,14,15] else 2*10**6 if i == 3
↳ else 6.8943 * 10**6 for i in range (1,16)])
A3 = B_bridge.transpose() @ K3 @ B_bridge

# for these forces
f1 = 10**6*np.array([0, 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0])
f2 = 10**6*np.array([0, 0, 0, 2, 0, 0, 0, 0, 0, 0, 0, 0])
f3 = 10**6*np.array([0, 0, 0, 0, 0, 2, 0, 0, 0, 0, 0, 0])

x = [ la.solve(A3,f) for f in [f1,f2,f3] ]
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NameError                                Traceback (most recent call last)
Cell In[1], line 1
----> 1 K3 = makeK([ 9.7* 10**6 if i in [1,3,4,6,9,12,14,15] else 2*10**6 if i
↳ == 3 else 6.8943 * 10**6 for i in range (1,16)])
      2 A3 = B_bridge.transpose() @ K3 @ B_bridge
      5 # for these forces

NameError: name 'makeK' is not defined
```

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[ ]:
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