

```

In [51]: import matplotlib.pyplot as plt
import numpy as np

G0 = -4
m = 2
D = np.linspace(0,5,100)
R = 1.985e-3
T = 298

def DG(G0,m,D):
    return(G0+m*D)

def Fu(DG,R,T):
    return(1/(np.exp(-DG/(R*T))+1))

DG_val = []
Fu_val = []

for i,v in enumerate(D):
    DG_val.append(DG(G0,m,v))

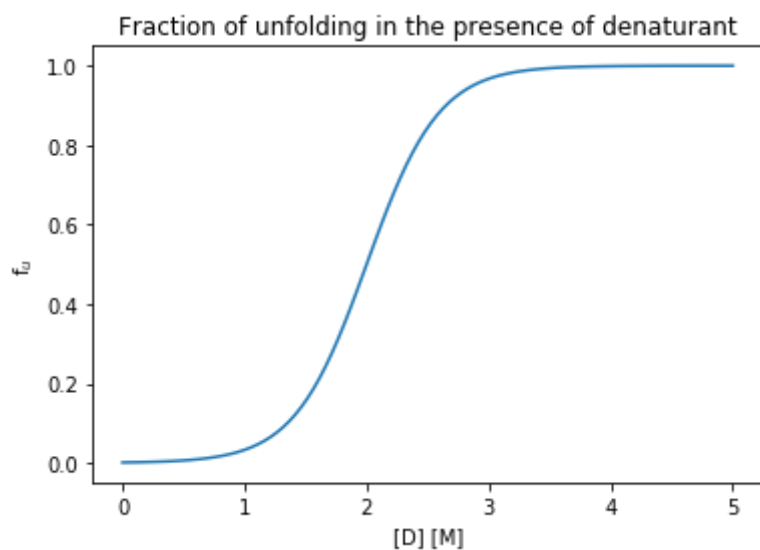
for j,w in enumerate(DG_val):
    Fu_val.append(Fu(w,R,T))

plt.plot(D,Fu_val)
plt.title("Fraction of unfolding in the presence of denaturant")
plt.xlabel("[D] [M]")
plt.ylabel("f_u")

print("Fraction unfolded without denaturant: ", Fu(G0,R,T))

```

Fraction unfolded without denaturant: 0.0011554314725147339



In [ ]:

In [ ]: