
























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Code





```
In [5]:  #Defining your own function

def eq1(x, y, co, v, Dm):
    return co/2*(1-erf(y/(np.sqrt(4*Dm*(x/v)))))
```

```
In [9]:  # using your own function
x = np.linspace(0.1,100,10000)
y = 2
v = 1
Dm = 1
label = ["Co = 1", "Co = 2", "Co = 3", "Co = 4", "Co = 5"]

for co in [1, 2, 3, 4, 5]:
    cm = eq1(x,y,co, v, Dm)
    plt.plot(x, cm)
    plt.legend(label)
    plt.ylabel(r'$C_m$ (mg/L)'), plt.xlabel(r'$x$ (m)')
    plt.grid(), plt.savefig("fig_L1.pdf")

print(cm[5])
```