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In[98]:= Needs["IdentifiabilityAnalysis`"]
        startTime = AbsoluteTime[]

Out[99]= 3.6877999395700907 × 109

In[100]:= vars = {x1, x2}

Out[100]= {x1, x2}

In[101]:= params = {k01, k02, k12, k21, v1}

Out[101]= {k01, k02, k12, k21, v1}

In[102]:= sys = {x1'[t] == k12 * x2[t] - (k01 + k21) * x1[t] + u1[t],
                  x2'[t] == k21 * x1[t] - (k02 + k12) * x2[t],
                  x1[0] == 0, x2[0] == 0}

Out[102]= {x1'[t] == u1[t] - (k01 + k21) x1[t] + k12 x2[t],
            x2'[t] == k21 x1[t] - (k02 + k12) x2[t], x1[0] == 0, x2[0] == 0}

In[103]:= output = {x1[t] / v1}

Out[103]=  $\left\{ \frac{x1[t]}{v1} \right\}$ 

In[104]:= iad = IdentifiabilityAnalysis[{sys, output}, vars, params, t, {u1}]

Out[104]= IdentifiabilityAnalysisData[False, <>]

In[105]:= iad["IdentifiableQ"]

Out[105]= False

In[106]:= iad["DegreesOfFreedom"]

Out[106]= 1

In[107]:= iad["NonIdentifiableParameters"]

Out[107]= {k01, k02, k12, k21}

In[108]:= endTime = AbsoluteTime[]
        N[endTime - startTime]

Out[108]= 3.6877999397862439 × 109

Out[109]= 0.216153

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