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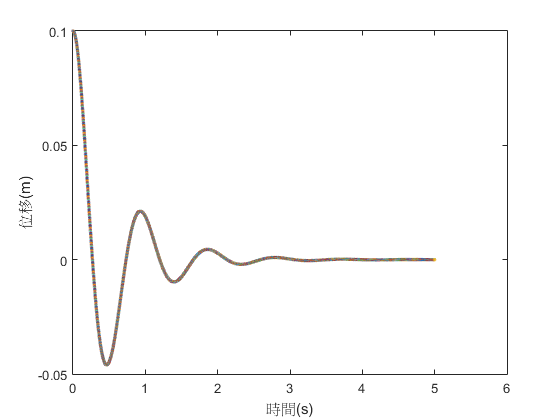
**problem 1**

使用尤拉法、h = 0.001、x正號為磚塊以震盪中點向上位移

(1)

+ + = 0

為磚塊質量(kg)、為油的阻礙係數(kg/s)、為距離中點位移

(2)  
   
  
(3)

頻率是週期的倒數  
 又週期為位移波峰間的水平距離

已知第二次出現波峰大約在1秒左右，該時間點的速率(x2)趨近於0

在迴圈內加入條件即可得知周期約為0.9300秒

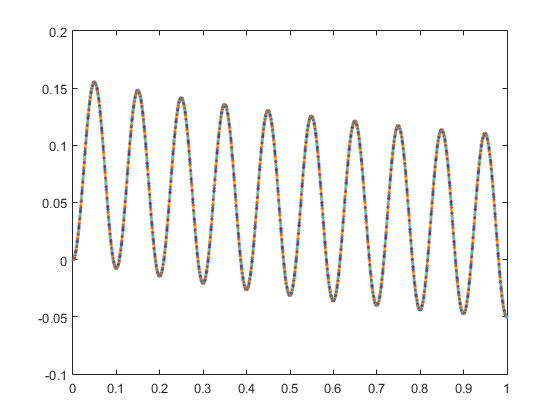
f = 0.93/1 = 1.0753 (1/s)

**problem 2**

皆使用尤拉法

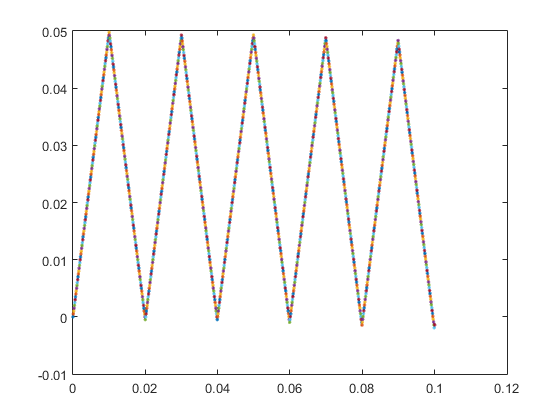
(1)

(2)  
 h = 0.0005



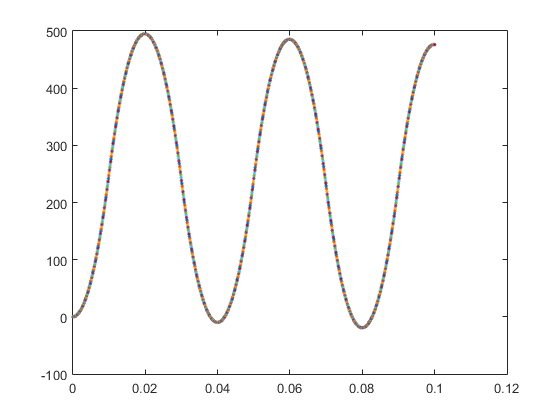
(3)

h = 0.0001



(4)

h = 0.0001

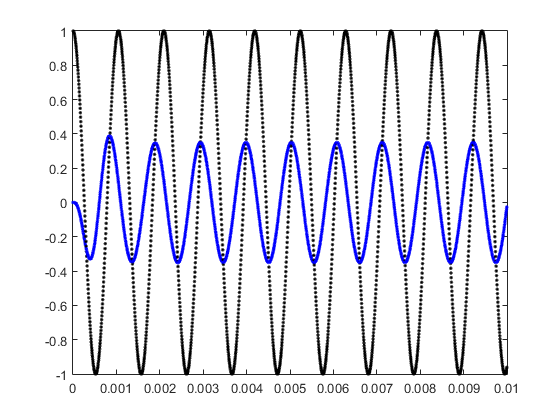


**problem 3**

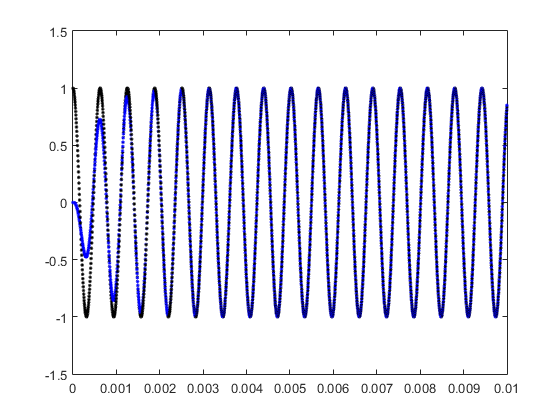
使用尤拉法，h = 0.000005

(1)KVL:

(2)黑色為Vs、藍色為Vr



(3)



(4)

