Q / A dynamic Vibration absorber is shown in fig. This system is representative of many situations involving the Vibration of marine containing unbalanced Components. The parameters M2 & N12 maybe charsen so that the main man m, does not vibrate in the steady state when F(t) = 2 * sin(10 * t).Obtain the differential equations describing this simulate this system for 10 see. M, = 100, 197=50 b = 50 Find the optimal value for M2 4 K12 so that my does not vimote. Ann 1) FBD for m, : m, d2, = f- K, Y, - bdy, - K, 2(4, - Y2)

