

Freebody diagram for M,

FBD for M2

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ful ptk12

 $f(t) - f_5 - f_{k_1} - f_{k_{12}} = M, a$ also f(t) = M, y, + K, y, + by, + K, y, -y2)

Cy M2 y2+ K12 (y2-y1)=0 From PBD2

Quen flt = 2 * sin (10 * t) M, = 100, K1 = 50, b = 50

M2 9 K12 ave adjusted so M, doesn't vibrate.