BMM3553: MECHANICAL VIBRATION

SEMESTER I-2017/2018

QUIZ 6

Q1 (10 MARKS)



A torsional system consists of compressor, turbine and generator can be modelled as a three degree of freedom system. Determine the natural frequencies and mode shapes of the system shown if $J_I = J_2 = J_3 = J_0$ and $k_{tI} = k_{t2} = k_{t3} = k_t$.

