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Solution of the vibration problem $M\ddot{y} + B\dot{y} + Ky = 0$, $y(t_0) = y_0$, $\dot{y}(t_0) = \dot{y}_0$ without the hypothesis $BM^{-1}K - KM^{-1}B$ or $B = \alpha M + \beta K$

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