

Summary

In coupled or simultaneous linear differential equations, the number of equations will be equal to the number of dependent variables, i.e if there are n dependent variables there will be n equation. Solution to coupled differential equation shall be obtained by the method of elimination by eliminating one of the variable and subsequently other variable. The method of differentiation shall be used to find the solution of coupled differential equation. In this method quantities like x , $\frac{dx}{dt}$, $\frac{d^2(x)}{dt^2}$, y , $\frac{dy}{dt}$ and $\frac{d^2(y)}{dt^2}$ shall be eliminated and the solution is obtained.