







Driven motion: $m \frac{d^2 x}{dt^2} + kx + \beta \frac{dx}{dt} = f(t)$

LRC-series circuit: $L \frac{di}{dt} + Ri + \frac{1}{C}q = E(t)$, which is

$$L \frac{d^2 q}{dt^2} + R \frac{dq}{dt} + \frac{1}{C}q = E(t)$$
