

$$y(1) = e \Rightarrow c_1 e + c_2 e = e, y'(1) = 0 \Rightarrow c_1 e + 2c_2 e + e = 0 \Rightarrow c_1 e + 2c_2 e = -e \Rightarrow c_1 + c_2 = 1, c_1 + 2c_2 = -1 \\ \Rightarrow c_1 = 3, c_2 = -2 \Rightarrow y = 3e^x - 2xe^x + x e^x \ln x$$

$$59. x^2 y'' + 2xy' - 2y = x^2, y_1 = x^{-2}, y_2 = x$$

$$\Rightarrow v_1' = \frac{\begin{vmatrix} \frac{0}{x^2} & x \\ \frac{2}{x^3} & 1 \end{vmatrix}}{\begin{vmatrix} x^{-2} & x \\ -2x^{-3} & 1 \end{vmatrix}} = \frac{-1}{x^{-1}} = -\frac{1}{2}x^2 \text{ and } v_2' = \frac{\begin{vmatrix} x^{-1} & 0 \\ -2x^{-3} & \frac{1}{x} \end{vmatrix}}{\begin{vmatrix} x^{-2} & x \\ -2x^{-3} & 1 \end{vmatrix}} = \frac{x^{-1}}{x^{-1}} = \frac{1}{2}$$

$$\Rightarrow v_1 = \int -\frac{1}{2}x^2 dx = -\frac{1}{12}x^3 \text{ and } v_2 = \int \frac{1}{2} dx = \frac{1}{2}x \Rightarrow y_p = (-\frac{1}{12}x^3)(x^{-2}) + (\frac{1}{2}x)(x) = \frac{1}{4}x^2$$

$$60. x^2 y'' + xy' - y = x, y_1 = x^{-1}, y_2 = x$$

$$\Rightarrow v_1' = \frac{\begin{vmatrix} \frac{0}{x^2} & x \\ \frac{1}{x^3} & 1 \end{vmatrix}}{\begin{vmatrix} x^{-1} & x \\ -x^{-2} & 1 \end{vmatrix}} = \frac{-1}{x^{-1}} = -\frac{1}{2}x \text{ and } v_2' = \frac{\begin{vmatrix} x^{-1} & 0 \\ -x^{-2} & \frac{1}{x} \end{vmatrix}}{\begin{vmatrix} x^{-1} & x \\ -x^{-2} & 1 \end{vmatrix}} = \frac{x^{-1}}{x^{-1}} = \frac{1}{2}x^{-1}$$

$$\Rightarrow v_1 = \int -\frac{1}{2}x dx = -\frac{1}{4}x^2 \text{ and } v_2 = \int \frac{1}{2}x^{-1} dx = \frac{1}{2}\ln|x| \Rightarrow y_p = (-\frac{1}{4}x^2)(x^{-1}) + (\frac{1}{2}\ln|x|)(x) = -\frac{1}{4}x + \frac{1}{2}x \ln|x|$$

17.3 APPLICATIONS

- $mg = 16 \Rightarrow m = \frac{16}{32}$; $k = 1$; $\delta = 1 \Rightarrow \frac{16}{32} \frac{d^2y}{dt^2} + 1 \frac{dy}{dt} + 1y = 0 \Rightarrow \frac{1}{2} \frac{d^2y}{dt^2} + \frac{dy}{dt} + y = 0, y(0) = 2, y'(0) = 2$
- $mg = 8 \text{ lb} \Rightarrow m = \frac{8}{32}$; $8 = k \cdot 4 \Rightarrow k = 2$; $\delta = 1.5 \Rightarrow \frac{8}{32} \frac{d^2y}{dt^2} + 1.5 \frac{dy}{dt} + 2y = 0 \Rightarrow \frac{1}{4} \frac{d^2y}{dt^2} + \frac{3}{8} \frac{dy}{dt} + 2y = 0, y(0) = -2, y'(0) = 3$
- $20 = k \cdot \frac{1}{4} \Rightarrow k = 40$; $w = 25 \text{ lb} \Rightarrow m = \frac{25}{32}$; $\delta = 0 \Rightarrow \frac{25}{32} \frac{d^2y}{dt^2} + 0 \cdot \frac{dy}{dt} + 40y = 0$. If $w = 25 \text{ lb}$, it stretches the spring $25 = 40x \Rightarrow x = \frac{5}{8} \text{ ft} \Rightarrow$ spring is now stretched $\frac{5}{12} - \frac{1}{4} = \frac{1}{24} \text{ ft}$ below equilibrium $\Rightarrow y(0) = \frac{1}{24}$; initial velocity is $v_0 = \frac{80}{320} = \frac{1}{4} \frac{\text{ft}}{\text{sec}} \Rightarrow y'(0) = \frac{1}{4}$. Thus we have $\frac{25}{32} \frac{d^2y}{dt^2} + 40y = 0, y(0) = \frac{1}{24}, y'(0) = \frac{1}{4}$
- $w = 10 \text{ lb} \Rightarrow m = \frac{10}{32}$; $10 = k \cdot (\frac{1}{16}) \Rightarrow k = 60 \frac{\text{lb}}{\text{ft}}$; $\delta = \frac{20}{\sqrt{32}} = \frac{5\sqrt{2}}{\sqrt{32}} \Rightarrow \frac{10}{32} \frac{d^2y}{dt^2} + \frac{5\sqrt{2}}{\sqrt{32}} \frac{dy}{dt} + 60y = 0$
 $\Rightarrow \frac{10}{32} \frac{d^2y}{dt^2} + \frac{5}{\sqrt{2}} \frac{dy}{dt} + 60y = 0, y(0) = \frac{1}{4}, y'(0) = 0$
- $E(t) = 20 \cos t$; $R \frac{dq}{dt} = 4 \frac{dq}{dt}$; $\frac{1}{6}q = 10q$; $L \frac{d^2q}{dt^2} = 2 \frac{d^2q}{dt^2} \Rightarrow 2 \frac{d^2q}{dt^2} + 4 \frac{dq}{dt} + 10q = 20 \cos t, q(0) = 2, q'(0) = 3$
- $L = 2, R = 12, C = \frac{1}{16}, E(t) = 300 \Rightarrow 2 \frac{d^2q}{dt^2} + 12 \frac{dq}{dt} + 16q = 300, q(0) = 0, q'(0) = 0$
- $mg = 16 \Rightarrow m = \frac{16}{32}$; $k = 1$; resistance = velocity $\Rightarrow \delta = 1 \Rightarrow \frac{1}{2} \frac{d^2y}{dt^2} + 1 \frac{dy}{dt} + 1y = 0, y(0) = 2, y'(0) = 2$
 $\Rightarrow \frac{1}{2}r^2 + r + 1 = 0 \Rightarrow r^2 + 2r + 2 = 0 \Rightarrow r = \frac{-2 \pm \sqrt{2^2 - 4(1)(2)}}{2(1)} = -1 \pm i \Rightarrow y = e^{-t}(c_1 \cos t + c_2 \sin t)$
 $\Rightarrow y' = e^{-t}(-c_1 \sin t + c_2 \cos t) - e^{-t}(c_1 \cos t + c_2 \sin t); y(0) = 2 \Rightarrow c_1 = 2; y'(0) = 2 \Rightarrow c_2 - c_1 = 2 \Rightarrow c_2 = 4$
 $\Rightarrow y(t) = e^{-t}(2 \cos t + 4 \sin t)$. At $t = \pi, y = e^{-\pi}(2 \cos \pi + 4 \sin \pi) = -2e^{-\pi} \approx -0.0864 \Rightarrow 0.0864 \text{ ft above equilibrium}$.
- $w = 8 \Rightarrow m = \frac{8}{32}$; $8 = k \cdot 4 \Rightarrow k = 2$; resistance = $1.5v \Rightarrow \delta = 1.5 \Rightarrow \frac{1}{2} \frac{d^2y}{dt^2} + 1.5 \frac{dy}{dt} + 2y = 0, y(0) = -2, y'(0) = 3$
 $\Rightarrow \frac{1}{4}r^2 + 1.5r + 2 = 0 \Rightarrow r^2 + 6r + 8 = 0 \Rightarrow (r+4)(r+2) \Rightarrow r = -4 \text{ or } r = -2 \Rightarrow y = c_1 e^{-4t} + c_2 e^{-2t}$
 $\Rightarrow y' = -4c_1 e^{-4t} - 2c_2 e^{-2t}; y(0) = -2 \Rightarrow c_1 + c_2 = -2; \Rightarrow y'(0) = 3 \Rightarrow -4c_1 - 2c_2 = 3 \Rightarrow c_1 = \frac{1}{2}, c_2 = -\frac{5}{2}$
 $\Rightarrow y(t) = \frac{1}{2}e^{-4t} - \frac{5}{2}e^{-2t}$. At $t = 2, y = \frac{1}{2}e^{-8} - \frac{5}{2}e^{-4} \approx -0.0456 \Rightarrow 0.0456 \text{ ft above equilibrium}$.

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web the phase currents of the a b and c phases the position of the rotor the dc voltage at the input of the motor controller

other signals such as iq id the duty cycles and etc are all generated using the math above such as the clarke and park transforms current controllers and svm

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web the control circuit is based on a cmos inverter ic1 type 40106 the motor is switched by a darlington with discrete components t1 t2 ic1a inverter operates as an oscillator whose duty cycle the t2 leads so the motor receives energy is determined by r2 c2 d3 gave the inactive signal oscillator when t2 is blocked is determined by r3 p1

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web the diagram below has two components the normally open temperature switch and the magnetic contactor the three normally closed contacts that represent the olr protection are connected in series with the motor coil and so can be treated as a single device in practice a motor starter often only has two external connection points and all internal

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web ically when voltage returns the control circuit is completed through the stop button and also a holding contact 2 3 on the starter when starter drops out this contact opens breaking the control circuit until the start button is pressed once again l3 t3 t

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web motor contactor or starter coils are typically designated by the letter m in ladder logic diagrams

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web an mcc comprises three buses for a three phase system and the cabinet consists of a circuit breaker a motor starter and a control transformer however the actual contents vary widely as per requirements the circuit breaker has a handle that goes through the door to switch it off without opening it for safety purposes

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