
Chapter 2: Introduction to Systems

Problem 2.1

- (i) The currents flowing out of node 1 along resistors R_1 , R_2 , and capacitor C , are given by

$$i_{R_1} = \frac{y(t) - v(t)}{R_1}, \quad i_{R_2} = \frac{y(t)}{R_2}, \quad i_C = C \frac{dy}{dt}$$

Applying the Kirchoff's current law to node 1 and summing up all the currents, gives

$$\frac{y(t) - v(t)}{R_1} + \frac{y(t)}{R_2} + C \frac{dy}{dt} = 0$$

or,
$$C \frac{dy}{dt} + \left(\frac{1}{R_1} + \frac{1}{R_2} \right) y(t) = \frac{v(t)}{R_1}$$

or,
$$\frac{dy}{dt} + \frac{R_1 + R_2}{CR_1 R_2} y(t) = \frac{1}{CR_1} v(t) \tag{S2.1}$$

(ii)

- (a) **Linear:** For $v_1(t)$ applied as the input, the output $y_1(t)$ is given by

$$\frac{dy_1}{dt} + \frac{R_1 + R_2}{CR_1 R_2} y_1(t) = \frac{1}{CR_1} v_1(t) \Rightarrow v_1(t) = CR_1 \frac{dy_1}{dt} + \frac{R_1 + R_2}{R_2} y_1(t)$$

For $v_2(t)$ applied as the input, the output $y_2(t)$ is given by

$$\frac{dy_2}{dt} + \frac{R_1 + R_2}{CR_1 R_2} y_2(t) = \frac{1}{CR_2} v_2(t) \Rightarrow v_2(t) = CR_2 \frac{dy_2}{dt} + \frac{R_1 + R_2}{R_2} y_2(t)$$

For $v_3(t) = \alpha v_1(t) + \beta v_2(t)$ applied as the input, the output $y_3(t)$ is given by

$$\frac{dy_3}{dt} + \frac{R_1 + R_2}{CR_1 R_2} y_3(t) = \frac{1}{CR_1} (\alpha v_1(t) + \beta v_2(t)).$$

Substituting the values of $v_1(t)$ and $v_2(t)$ from the earlier equations, we get

$$\frac{dy_3}{dt} + \frac{R_1 + R_2}{CR_1 R_2} y_3(t) = \alpha \left[\frac{dy_1}{dt} + \frac{R_1 + R_2}{CR_1 R_2} y_1(t) \right] + \beta \left[\frac{dy_2}{dt} + \frac{R_1 + R_2}{CR_1 R_2} y_2(t) \right].$$

Rearranging the terms on the right hand side of the equation, we get

$$\frac{dy_3}{dt} + \frac{R_1 + R_2}{CR_1 R_2} y_3(t) = \frac{d(\alpha y_1 + \beta y_2)}{dt} + \frac{R_1 + R_2}{CR_1 R_2} (\alpha y_1(t) + \beta y_2(t)),$$

which implies that
$$y_3(t) = \alpha y_1(t) + \beta y_2(t).$$

The system is, therefore, linear.

- (b) **Time-invariance:** For $v(t - t_0)$ applied as the input, the output $y_3(t)$ is given by

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