

CHAPTER 1

- 1.1-1.** (a) Show that the transfer function of two systems in parallel, as shown in Fig. P1.1-1(a), is equal to the sum of the transfer functions.
(b) Show that the transfer function of two systems in series (cascade), as shown in Fig. P1.1-1(b), is equal to the product of the transfer functions.

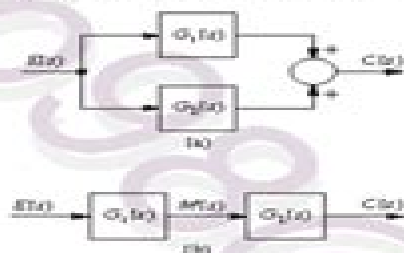


Fig. P1.1-1

Solution:

$$(a) \quad C(s) = G_1(s)B(s) + G_2(s)B(s) = [G_1(s) + G_2(s)]B(s)$$

$$\therefore \frac{C(s)}{B(s)} = G_1(s) + G_2(s)$$

$$(b) \quad C(s) = G_2(s)M(s) = G_1(s)G_2(s)B(s)$$

$$\therefore \frac{C(s)}{B(s)} = G_1(s)G_2(s)$$

- 1.1-2.** By writing algebraic equations and eliminating variables, calculate the transfer function $C(s)/R(s)$ for the system of:
(a) Figure P1.1-2(a).
(b) Figure P1.1-2(b).
(c) Figure P1.1-2(c).

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