Solutions to B Problems

CHAPTER 2

B-2-1.
$$f(t) = 0 t < 0$$

$$= t e^{-2t} t \ge 0$$
Note that
$$\mathcal{L}[t] = \frac{1}{e^2}$$

Referring to Equation (2-2), we obtain

$$F(s) = \sqrt{[f(t)]} = \sqrt{[t e^{-2t}]} = \frac{1}{(s+2)^2}$$

B-2-2.

(a)
$$f_1(t) = 0$$
 $t < 0$
= $3 \sin(5t + 45^c)$ $t \ge 0$

Note that

3 sin (5t + 45°) = 3 sin 5t cos 45° + 3 cos 5t sin 45°
=
$$\frac{3}{J^2}$$
 sin 5t + $\frac{3}{J^2}$ cos 5t

So we have

(b)
$$F_{1}(s) = \sqrt{[f_{1}(t)]} = \frac{3}{\sqrt{2}} \frac{5}{s^{2} + 5^{2}} + \frac{3}{\sqrt{2}} \frac{s}{s^{2} + 5^{2}}$$

$$= \frac{3}{\sqrt{2}} \frac{s + 5}{s^{2} + 25}$$

$$= 0.03(1 - \cos 2t) \quad t < 0$$

$$= 0.03(1 - \cos 2t) \quad t \ge 0$$

$$F_{2}(s) = \sqrt{[f_{2}(t)]} = 0.03 \frac{1}{s} - 0.03 \frac{s}{s^{2} + 2^{2}} = \frac{0.12}{s(s^{2} + 4)}$$

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