

# Second shifting theorem

$L\{f(t)\} = \bar{f}(s)$ , then

If  $L\{f(t-a)u(t-a)\} = e^{-as} \bar{f}(s)$

Proof : by definition of Laplace transform, we have,

$$\begin{aligned} L\{f(t-a)u(t-a)\} &= \int_0^{\infty} e^{-st} \cdot f(t-a)u(t-a) dt \\ &= \int_0^a e^{-st} f(t-a) \cdot 0 dt + \int_a^{\infty} e^{-st} f(t-a) \cdot 1 dt \end{aligned}$$

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**William F. Trench**



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