

# Laplace Transform

## Table

$$\mathcal{L}\left(\frac{df(t)}{dt}\right) = \int_0^\infty \frac{df(t)}{dt} e^{-st} dt$$

$$\int_a^b u \cdot dv = u \cdot v \Big|_a^b - \int_a^b v \cdot du$$

$$du = -s \cdot e^{-st} dt \quad u = e^{-st}$$

$$v = f(t) \quad dv = \frac{df(t)}{dt} dt$$

$$\int_0^\infty \frac{df(t)}{dt} e^{-st} dt = \left[ e^{-st} \cdot f(t) \right]_0^\infty - \int_0^\infty f(t) \cdot (-s) \cdot e^{-st} dt$$

$$= \left[ e^{-st} \cdot f(\infty) - e^{-s \cdot 0} \cdot f(0^+) \right] + s \int_0^\infty f(t) \cdot e^{-st} dt$$

$$\int e^{-pt} \sin kt \, dt = -\frac{1}{p} e^{-pt} \sin kt - \int -\frac{1}{p} e^{-pt} \cdot k \cos kt \, dt$$

$$= -\frac{1}{p} e^{-pt} \sin kt + \frac{k}{p} \int e^{-pt} \cos kt \, dt$$

$$= -\frac{1}{p} e^{-pt} \sin kt +$$

$$\frac{k}{p} \left[ -\frac{1}{p} e^{-pt} \cos kt + \int \frac{1}{p} e^{-pt} \cdot (-k \sin kt) \, dt \right]$$

$$= -\frac{1}{p} e^{-pt} \sin kt - \frac{k}{p^2} e^{-pt} \cos kt$$

$$- \frac{k^2}{p^2} \int e^{-pt} \sin kt \, dt$$



**Electrical 4 U**

# Electrical Engineering Laplace Transform

**SJ Ball**



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