

Table 2.1 Laplace Transforms

$u(t)$	$U(s)$
1	$s^{-1}, \quad s > 0$
e^{at}	$\frac{1}{s-a}, \quad s > a$
$t^n, \quad n$ a positive integer	$\frac{n!}{s^{n+1}}, \quad s > 0$
$\sin at$ and $\cos at$	$\frac{a}{s^2+a^2}$ and $\frac{s}{s^2+a^2}, \quad s > 0$
$\sinh at$ and $\cosh at$	$\frac{a}{s^2-a^2}$ and $\frac{s}{s^2-a^2}, \quad s > a $
$H(t-a)$	$s^{-1}e^{-as}, \quad s > 0$
$\delta(t-a)$	e^{-as}
$H(t-a)f(t-a)$	$F(s)e^{-as}$
$f(t)e^{-at}$	$F(s+a)$
$H(t-a)f(t)$	$e^{-as}\mathcal{L}(f(t+a))$
$\operatorname{erf}\sqrt{t}$	$s^{-1}(1+s)^{-1/2}, \quad s > 0$
$\frac{1}{\sqrt{t}} \exp\left(\frac{-a^2}{4t}\right)$	$\sqrt{\pi/s} e^{-a\sqrt{s}}, \quad (s > 0)$
$1 - \operatorname{erf}\left(\frac{a}{2\sqrt{t}}\right)$	$s^{-1}e^{-a\sqrt{s}}, \quad s > 0$
$\frac{a}{2t^{3/2}} \exp\left(\frac{-a^2}{4t}\right)$	$\sqrt{\pi} e^{-a\sqrt{s}}, \quad s > 0$

Laplace Transforms B S Grewal Guide

L Cohen



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