

	$f(s)$		$F(t)$	
29.3.41	$\frac{1}{\sqrt{s}(s+a^2)}$		$\frac{2}{a\sqrt{\pi}} e^{-a^2t} \int_0^{a\sqrt{t}} e^{\lambda^2} d\lambda$	7
29.3.42	$\frac{b^2-a^2}{(s-a^2)(b+\sqrt{s})}$		$e^{a^2t} [b-a \operatorname{erf} a\sqrt{t}] - b e^{b^2t} \operatorname{erfc} b\sqrt{t}$	7
29.3.43	$\frac{1}{\sqrt{s}(\sqrt{s}+a)}$		$e^{a^2t} \operatorname{erfc} a\sqrt{t}$	7
29.3.44	$\frac{1}{(s+a)\sqrt{s+b}}$		$\frac{1}{\sqrt{b-a}} e^{-at} \operatorname{erf} (\sqrt{b-a}\sqrt{t})$	7
29.3.45	$\frac{b^2-a^2}{\sqrt{s}(s-a^2)(\sqrt{s}+b)}$		$e^{a^2t} \left[ \frac{b}{a} \operatorname{erf} (a\sqrt{t}) - 1 \right] + e^{b^2t} \operatorname{erfc} b\sqrt{t}$	7
29.3.46	$\frac{(1-s)^n}{s^{n+\frac{1}{2}}}$		$\frac{n!}{(2n)!\sqrt{\pi t}} H_{2n}(\sqrt{t})$	22
29.3.47	$\frac{(1-s)^n}{s^{n+\frac{3}{2}}}$		$\frac{n!}{(2n+1)!\sqrt{\pi}} H_{2n+1}(\sqrt{t})$	22
29.3.48	$\frac{\sqrt{s+2a}-1}{\sqrt{s}}$		$a e^{-at} [I_1(at) + I_0(at)]$	9
29.3.49	$\frac{1}{\sqrt{s+a}\sqrt{s+b}}$		$e^{-\frac{1}{2}(a+b)t} I_0\left(\frac{a-b}{2}t\right)$	9
29.3.50	$\frac{\Gamma(k)}{(s+a)^k(s+b)^k} \quad (k>0)$	6	$\sqrt{\pi} \left(\frac{t}{a-b}\right)^{k-\frac{1}{2}} e^{-\frac{1}{2}(a+b)t} I_{k-\frac{1}{2}}\left(\frac{a-b}{2}t\right)$	10
29.3.51	$\frac{1}{(s+a)^{\frac{1}{2}}(s+b)^{\frac{3}{2}}}$		$t e^{-\frac{1}{2}(a+b)t} \left[ I_0\left(\frac{a-b}{2}t\right) + I_1\left(\frac{a-b}{2}t\right) \right]$	9
29.3.52	$\frac{\sqrt{s+2a}-\sqrt{s}}{\sqrt{s+2a}+\sqrt{s}}$		$\frac{1}{t} e^{-at} I_1(at)$	9
29.3.53	$\frac{(a-b)^k}{(\sqrt{s+a}+\sqrt{s+b})^{2k}} \quad (k>0)$		$\frac{k}{t} e^{-\frac{1}{2}(a+b)t} I_k\left(\frac{a-b}{2}t\right)$	9
29.3.54	$\frac{(\sqrt{s+a}+\sqrt{s})^{-2\nu}}{\sqrt{s}\sqrt{s+a}} \quad (\nu>-1)$		$\frac{1}{a^\nu} e^{-\frac{1}{2}at} I_\nu\left(\frac{1}{2}at\right)$	9
29.3.55	$\frac{1}{\sqrt{s^2+a^2}}$		$J_0(at)$	9
29.3.56	$\frac{(\sqrt{s^2+a^2}-s)^\nu}{\sqrt{s^2+a^2}} \quad (\nu>-1)$		$a^\nu J_\nu(at)$	9
29.3.57	$\frac{1}{(s^2+a^2)^k} \quad (k>0)$		$\frac{\sqrt{\pi}}{\Gamma(k)} \left(\frac{t}{2a}\right)^{k-\frac{1}{2}} J_{k-\frac{1}{2}}(at)$	6, 10