

# Laplace vs Fourier Transforms

Feature	Laplace Transform	Fourier Transform
Domain of Application	Initial value problems, transient behavior, system stability	Frequency domain analysis, periodic signals, signal decomposition
Definition	$F(s) = \int_0^{\infty} e^{-st} f(t) dt$	$F(\omega) = (1 / \sqrt{2\pi}) \int_{-\infty}^{\infty} e^{j\omega t} f(t) dt$
Convergence	Piecewise continuous and of exponential order	Absolutely integrable
Transform Type	Unilateral ( $t \geq 0$ )	Bilateral ( $-\infty < t < \infty$ )
Variable	Complex variable $s = \sigma + j\omega$	Angular frequency $\omega$
Typical Use Cases	Circuit analysis, control systems, solving differential equations with initial conditions	Signal processing, image processing, communications, quantum mechanics
Handling of Initial Conditions	Naturally incorporates initial conditions	Requires separate handling of initial conditions
Computational Complexity	Can be computationally intensive for complex systems	FFT algorithm provides efficient computation

# Laplace And Fourier Transforms

**Gerrit Dijk**



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