

LAPLACE TRANSFORM

Let $f(t)$ be a function of 't' defined for all positive values of t, then the Laplace transform of $f(t)$ denoted by $L\{f(t)\}$ is defined by

Differential equation
↓
Algebraic equation

$$L\{f(t)\} = \int_0^{\infty} e^{-st} \cdot f(t) dt$$

general formula

Provided the integral exist.

where, $s \rightarrow$ parameter which may be real or complex no.

$$L\{e^{x/\sqrt{t}}\} = \frac{1}{s\sqrt{s+1}}$$

FORMULE

1. $L\{1\} = \frac{1}{s}$ $L\{t^n\} = \frac{n!}{s^{n+1}}$

4. $L\{\sin at\} = \frac{a}{s^2 + a^2}$

5. $L\{\cos at\} = \frac{s}{s^2 + a^2}$

2. $L\{e^{at}\} = \frac{1}{s-a}$
 $L\{e^{-at}\} = \frac{1}{s+a}$

6. $L\{\sinh at\} = \frac{a}{s^2 - a^2}$

3. $L\{t^n\} = \frac{n!}{s^{n+1}}$
 $= \frac{\Gamma(n+1)}{s^{n+1}}$

7. $L\{\cosh at\} = \frac{s}{s^2 - a^2}$

(gamma function)

Laplace Transform Solution

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