

Problem 1: The Laplace Transform and the Fourier Transform

- Show that a function $f(t)$ is Laplace transformable if and only if it is bounded and piecewise continuous on $[0, \infty)$.
- Show that a function $f(t)$ is Fourier transformable if and only if it is absolutely integrable on $(-\infty, \infty)$.
- Show that the Laplace transform of a function $f(t)$ is unique.

Key Concepts	Results
<ul style="list-style-type: none"> • Laplace transform of a function $f(t)$ is given by $F(s) = \int_0^\infty f(t)e^{-st} dt$. • Inverse Laplace transform of $F(s)$ is given by $f(t) = \mathcal{L}^{-1}\{F(s)\}$. • Laplace transform of a function $f(t)$ is unique. 	<ul style="list-style-type: none"> • Laplace transform of e^{at} is $\frac{1}{s-a}$. • Laplace transform of t^n is $\frac{n!}{s^{n+1}}$. • Laplace transform of $\sin t$ is $\frac{1}{s^2+1}$.

Practice Problems and their solutions
<p>1. Find the Laplace transform of $f(t) = t^2 e^{-t}$.</p> <p>2. Find the inverse Laplace transform of $F(s) = \frac{1}{s^2+1}$.</p> <p>3. Find the Laplace transform of $f(t) = \sin t \cos t$.</p> <p>4. Find the inverse Laplace transform of $F(s) = \frac{s}{s^2+4}$.</p>

Problem 2: The Laplace Transform and the Fourier Transform

- Show that a function $f(t)$ is Laplace transformable if and only if it is bounded and piecewise continuous on $[0, \infty)$.
- Show that a function $f(t)$ is Fourier transformable if and only if it is absolutely integrable on $(-\infty, \infty)$.
- Show that the Laplace transform of a function $f(t)$ is unique.

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Sabine Zange



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