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$L(-\infty, \infty)$ in the mathematical literature and meaning that the function f belongs to the space of absolutely integrable functions Moreover, then Riemann's lemma holds $\int_{-\infty}^{\infty} f(t)\cos\omega t dt \rightarrow 0$, $\int_{-\infty}^{\infty} f(t)\sin\omega t dt \rightarrow 0$, as $\omega \rightarrow \infty$ The Fourier transform is based on the kernel $e^{i\omega t}$ and its real and imaginary

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- Arfken, G and Weber, H, Mathematical Methods for Physicists, Academic (2005) - Jeffreys, H and Jeffreys BMethods of Mathematical Physics, CUP 3rd edition (1999) A classic To be found on the shelves of many generations of mathematical physicists ...

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Orthogonality • The Laguerre differential equation is not self-adjoint and the Laguerre polynomials do not by themselves form an orthogonal set

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Mathematical Methods for Physics PHYS 30672 by Niels Walet with additions by Mike Godfrey, and based on work by Graham Shaw Spring 2015 edition Last changed on April 13, 2016

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82 First-Order ODEs 411 where ψ is the unknown function or general solution, the source F is a known function of one variable (for ODEs) and independent of ψ , and L is a linear combination of derivatives acting on ψ If $F = 0$, the ODE is called inho- mogeneous;if $F \equiv 0$, the ODE is called homogeneousThe solution of the homogeneous ODE can be multiplied by an arbitrary constant

A N I N T R O D U C T I O N T O M A T H E M A T I C A L P H ...

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Mathematical Methods for Introductory Physics by Robert G Brown Duke University Physics Department Durham, NC 27708-0305 rgb@phy.duke.edu