

# Mathematical Methods For Physicists Arfken Weber 5th Edition

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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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152 Fourier Transform 693 Substituting these results we find  $F(\omega) = \frac{1}{\sqrt{2}} \exp(-\omega^2/4a^2)$ , (1510) again a Gaussian, but in  $\omega$ -space The smaller  $a$  is (ie, the wider the original Gaussian  $e^{-a^2t^2}$  is), the narrower is its Fourier transform  $\sim e^{-\omega^2/4a^2}$  Differentiating  $F(\omega)$ , the Fourier transform of  $i\omega e^{-\omega^2/4a^2}$  is  $\sim te^{-a^2t^2}$ , etc Laplace Transform The equally important Laplace

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