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Airy Functions and Applications to Physics

The Airy functions $Ai(x)$ and $Bi(x)$ are linearly independent solutions of the differential equation $d^2 y/dx^2 = xy$. For real x , $Ai(x)$ can be written as $1/\pi$ times the integral from zero to infinity of the cosine of $xt+(t^3/3)$, with respect to t . It is convenient to define two more functions $Gi(x)$ and $Hi(x)$, the inhomogeneous Airy or Scorer functions.

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The Airy function $Ai(x)$ oscillates on the real negative axis, where $2/3 x^{3/2} \sim x^{3/2}$, $S^{-1} S(1-3)$ And it has a discrete set of zeroes, while It decays exponential fast on the real positive axis, where $2/3 x^{3/2} \sim 2x^{3/2}$ $S(1-4)$ The Airy function has many application in physics (optics, quantum mechanics, electromagnetic, radiative transfer) [5].

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In the physical sciences, the Airy function (or Airy function of the first kind) $Ai(x)$ is a special function named after the British astronomer George Biddell Airy (1801–1892). The function $Ai(x)$ and the related function $Bi(x)$, are linearly independent solutions to the differential equation $y''' = y$, known as the Airy equation or the Stokes equation. This is the simplest second-order linear ...

Airy function - Wikipedia

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Airy Functions And Applications To Physics by Olivier ...

Airy functions are applied in many branches of both classical and quantum physics. The function $Ai(x)$ first appears as an integral in two articles by G.B. Airy on the intensity of light in the neighborhood of a caustic (Airy (1838, 1849)). Details of the Airy theory are given in van de Hulst in the

DLMF: 9.16 Physical Applications

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Airy Functions And Applications To Physics Containing examples that succinctly illustrate the use of Airy functions in classical and quantum physics, this comprehensive text is devoted to the mathematical properties of Airy functions, and presents some applications to various fields of physics.