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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

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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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Physics. Olivier Vallee, manuel Soares.
The use of special functions, and in
particular Airy functions, is rather
common in physics. The reason may be
found in the need, and even in the
necessity, to express a physical
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The Airy function $Ai(x)$ oscillates on the
real negative axis, where $2/3 |x|^{3/2} \sim x$.
And it has a discrete set of

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zeroes, while It decays exponential fast on the real positive axis, where $2 \sqrt{x} \sim 2x S$
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Definitions and Properties / Airy Functions and ...

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(1801-1892). The function $Ai(x)$ and the related function $Bi(x)$, are linearly independent solutions to the differential equation $y''' = x y$, 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 are applied in many branches of both classical and quantum physics. The function $\text{Ai}(x)$ 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

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