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mathematical properties of Airy functions, whilst the second presents some applications of Airy functions to various fields of physics.

Airy Functions and
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The Airy functions $Ai(x)$
and $Bi(x)$ are linearly
independent solutions of
the differential equation
 $d^2 y/dx^2 = xy$. For real

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x , $\text{Ai}(x)$ 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 $\text{Gi}(x)$ and $\text{Hi}(x)$, the inhomogeneous Airy or Scorer functions.

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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 phenomenon in terms of an effective and comprehensive analytical form for the whole scientific community.

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The Airy function $Ai(x)$ oscillates on the real negative axis, where $Ai(x) \sim x^{-1/4} \cos(\frac{2}{3}\sqrt{|x|^3} + \frac{\pi}{4})$ (1-3) And it has a discrete set of zeroes, while It decays exponential fast on the real positive axis, where $Ai(x) \sim \frac{1}{2} \exp(-\frac{2}{3}x^{3/2})$ (1-4) The

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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 $y''' - xy = 0$, known as the Airy

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equation or the Stokes equation. This is the simplest second-order linear ...

Airy function -
Wikipedia

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scientific community.

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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.

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of a caustic (Airy (1838, 1849)). Details of the Airy theory are given in van de Hulst in the

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devoted to the mathematical properties of Airy functions, and presents some applications to various fields of physics.

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