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

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The Airy functions $Ai(x)$ and $Bi(x)$ are

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linearly independent solutions of the differential equation $d^2 y/dx^2 = xy$. For real x , $Ai(x)$ can be written as $1/\sqrt{\pi}$ 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 use of special functions, and in
particular Airy functions, is rather
common in physics. The reason may be

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

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PROPERTIES OF AIRY FUNCTION AND APPLICATION TO THE V-SHAPE

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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 $y''' = x y$, known as the Airy equation

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

Airy function - Wikipedia

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

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whole scientific community.

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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

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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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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.

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