

Airy Functions And Applications To Physics

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Applications of Airy functions continue to proliferate, and practitioners will welcome this comprehensive compilation of mathematical and physical information.

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The book is divided into 2 parts: the first is devoted to the mathematical properties of Airy functions, whilst the second presents some applications of Airy functions to various fields of physics.

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 $1/\sqrt{\pi} \int_0^\infty \cos(xt + t^3/3) dt$, 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 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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Airy Functions and Applications to 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 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 $2/3 x^{3/2} \sim x \int_0^\infty \cos(xt + t^3/3) dt$, $S_1(x) \sim S_2(x)$ (1-3) And it has a discrete set of zeroes, while It decays exponential fast on the real positive axis, where $2/3 x^{3/2} \sim 2x S_1(x)$ (1-4) The Airy function has many application in physics (optics, quantum mechanics, electromagnetic, radiative transfer) [5].

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 $y'' = xy$, 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 $Ai(x)$ 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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Applications of Airy functions continue to proliferate, and practitioners will welcome this comprehensive compilation of mathematical and physical information. This new edition is a considerable improvement on what was already an excellent book, with a broader approach and the addition of many new references.

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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.