

Airy Functions And Applications To Physics

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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 $1/\pi$ 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 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 $2/4 \cdot 21 \cdot x^{3/4} \sim x \cdot S^{-1} \cdot S(1-3)$ And it has a discrete set of zeroes, while It decays exponential fast on the real positive axis, where $2/4 \cdot ex \sim 2x \cdot S(1-4)$ The Airy function has many application in physics (optics, quantum mechanics, electromagnetic, radiative transfer) [5].

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Definitions and Properties | Airy Functions and ...
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 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

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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.