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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.

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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  $x$ ,  $Ai(x)$  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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**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.

*Airy Functions and Applications to Physics | Olivier ...*

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 Airy function has many application in physics (optics, quantum mechanics, electromagnetic, radiative transfer) [5].

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AND APPLICATION TO THE V-  
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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



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linearly independent solutions to the differential equation? =, known as the Airy equation 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 whole scientific community.

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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

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(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.

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