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Integrals involving Airy functions J R Albright and E P Gavathas Published 11 September 1986 • Journal of Physics A: Mathematical and General , Volume 19 , Number 13

Integrals involving Airy functions - IOPscience

Integrals Involving Airy Functions IOPscience The function $Ai(x - a)Ai(x - b)$, where $a, b \in \mathbb{R}$ and $Ai(x)$ is the Airy function of the first kind, appears in the study of the Gelfand – Levitan – Marchenko equation involving Airy functions (see [1, p. 408]), the second Painleve equation (see [27, p. 134]) and the limit at the “ edge of the spectrum ” of the level spacing

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A large number of indefinite integrals of the form $\int x^n y^1 y^2 dx$ have been evaluated in terms of x, y^1, y^2 and their first derivatives; y^1 and y^2 are both solutions of the differential equation $y''=xy$. Some of these integrals can be applied to the quantum mechanical problem of a particle in a uniform field of force.

Integrals of products of Airy functions - IOPscience

Abstract. We show how to evaluate a large number of integrals involving Airy functions. The method uses the fact that the Wronskian has a very simple form. A recent paper by Wille and Vennik (1985) presented a derivation of the result $Ai(x)Bi(x) (Ai^2(x) + Bi^2(x))' dx = 48$ where $Ai(x)$ and $Bi(x)$ are the standard Airy functions.

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Integrals of products of Airy functions are collected here; y refers to any linear combination I of $Ai(x)$ and $Bi(x)$; n is a positive integer. $y^2 dx = xy^2 - yT^2$ (A.1)

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The Airy function based solutions of the paraxial wave equation in planar geometry are framed within the unifying context of a well-known Lie algebra formalism, which is shown to account for both infinite and finite energy solutions. In fact, the finite energy solutions can be obtained by complexification of the relevant propagation parameter.

A note on the Airy beams in the light of the symmetry...

In this short paper, we give some integrals involving Volterra μ -functions and Airy functions. In particular, we prove that Volterra functions behave as eigenfunctions of integral equations whose kernels are solutions of the linearized Korteweg-de Vries equation. Keywords: Airy Functions, Volterra Function, Diffusion Equation, Linearized Korteweg-de Vries Equation.

Some Integrals Involving Airy Functions and Volterra μ ...

In terms of Airy functions. Ascending series. Asymptotic series. Primitive of Scorer functions. Repeated primitives. Product of Airy Functions . The method of Albright. Some primitives. Other Primitives. Miscellaneous. Elementary Integrals . Particular integrals. Integrals containing a single Airy function . Integrals involving algebraic ...

Primitives and Integrals of Airy Functions | Airy ...

A new integral representation of the Hankel transform type is deduced for the function $F_n(x, Z) = Z^{n-1} Ai(x-Z) Ai(x+Z)$ with $x \in \mathbb{R}, Z > 0$ and $n \in \mathbb{N}$. This formula involves the product of Airy functions, their derivatives and Bessel functions. The presence of the latter allows one to perform various transformations with respect to Z and obtain new integral formulae of the type of the Mellin transform, K-transform, Laplace and Fourier transform.