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Integral representations of products of airy functions ...

So the integrals should be expressed by Bessel and Struve functions. Indeed, there occurred some exceptions. Generally, integrals of the type $\int_0^{\infty} v(x)dx$ may be written with Lommel functions, see [8], 10 -74, or [3], III . In many cases recurrence relations define more integrals in a simple way. Partially the integrals may be found by MAPLE ...

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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

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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. 488]), the second Painleve equation (see [27, p. 134]) and the limit at the "edge of the spectrum" of the level spacing distribution functions obtained from scaling random models of ...

IXQFWLRQV

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.

Special functions (scipy.special) - SciPy v1.5.3 Reference ...

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Integrals involving products of Airy functions, their ...

Integrals involving Airy functions J R Albright and E P Gavathas Florida State University, Tallahassee, FL 32306, USA Received 26 November 1985 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.

Asymptotic Expansions of Integrals and the Method of ...

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Starting with an extensive introductory chapter on basic formulas, the treatment advances to indefinite integrals, examining them in terms of Lommel and Bessel functions. Subsequent chapters explore airy functions, incomplete gamma function and related functions, repeated integrals of Bessel functions, and integrals involving Struve functions.

Primitives and Integrals of Airy Functions | Airy ...

[33] V. VARLAMOV, Integrals involving products of Airy functions, their derivatives and Bessel functions, Journal of Mathematical Analysis and Applications, 370, (2010), 687-702. [34] V. VARLAMOV, Differential and integral relations involving fractional derivatives of Airy functions

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In terms of Airy functions. Ascending series. Asymptotic expansions. Primitives 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 ...

Integrals of Bessel Functions (Dover Books on Mathematics ...

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.

Primitives and Integrals of Airy Functions | Airy ...

Difference equations for moment integrals which contain powers of the Airy function $Ai(z)$ and its ... J. R. Albright and E. P. Gavathas, Integrals involving Airy Functions, J. Phys. A: Math. Gen. 20, 2663-2665 (1985). Google Scholar [2] J. Kelber, Ch. Schnittler and H. Ubensee, Integral Formulae for Airy Functions, Wissenschaftliche ...

Gaussian Quadrature of Some Integrals Involving Airy Functions

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of a real valued integral coming from a point or points on the interval where $R(t)$ attains its maximum. In Section 4 the method of steepest descent is discussed, which can be considered a generalization of Laplace's method used for complex integrals. In Section 5 two applications are presented, the asymptotics of the Airy function and the

Integrals involving products of Airy functions, their ...

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 ...

Some Integrals Involving Airy Functions and Volterra μ ...

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TABLES OF SOME INDEFINITE INTEGRALS OF BESSEL FUNCTIONS OF ...

airy (z). Airy functions and their derivatives. airye (z). Exponentially scaled Airy functions and their derivatives.. ai_zeros (nt). Compute nt zeros and values of the Airy function Ai and its derivative.. bi_zeros (nt). Compute nt zeros and values of the Airy function Bi and its derivative.. itairy (x). Integrals of Airy functions

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The computation of the function values $f(4[1 + aj])$, etc. were carried out using the British Association tables of the Airy functions [3]. In order to obtain these to eight figures it was necessary to use the second-order interpolation scheme suggested in the tables. As noted below the value of the last integral, $\int_0^{\infty} x f(x) dx$, 24

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