

## Tables Of Generalized Airy Functions For The Asymptotic Solution Of The Differential Equation Mathematical Tables Series S A Tumarkin

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### Tables Of Generalized Airy Functions

**Publisher Summary.** This chapter presents tables that contain the numerical values of special functions that are called generalized Airy functions and denoted by  $e_n(t)$ ,  $n(t)$ . The values of the first derivatives of these functions are also given.

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A  $n(z)$ : generalized Airy function,  $B_n(z)$ : generalized Airy function,  $n$ : the ratio of the circumference of a circle to its diameter,  $I_\nu(z)$ : modified Bessel function of the first kind,  $K_\nu(z)$ : modified Bessel function of the second kind,  $\sin z$ : sine function,  $z$ : complex variable,  $n$ : parameter,  $p$ : variable and  $\zeta$ , ...

### DLMP: 9.13 Generalized Airy Functions

Get this from a library! Tables of generalized airy functions for the asymptotic solution of the differential equations  $[\epsilonpsilon]y' + (q + [\epsilonpsilon])y = f$ . [L N Nosova; S A Tumarkin; Donald E Brown]

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Additional listings of early tables of the functions treated in this chapter are given in Fletcher et al. and Lebedev and Fedorova . \$9.18(ii) Real Variables [] ... Generalized Airy Functions ...

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Tables of generalized airy functions for the asymptotic ... Tables of Generalized Airy Functions\* By R.C. Y. Chin and G. W. Hedstrom Abstract. This paper contains graphs and tables of the function  $A_{ip,q}(\leftarrow x) = i^{-\text{Cin}}-1 \text{ exply}P/p\text{-ay}lq + \text{ixy} \text{ dy}$  and its indefinite integral for  $p = 3, 5, 7$ , for  $q$

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### Tables of Generalized Airy Functions for the Asymptotic ...

Calculates a table of the Airy functions  $Ai(x)$  and  $Bi(x)$  and draws the chart. initial value  $x$ : real number [ increment: repetition] Customer Voice. Questionnaire. FAQ. Airy function (chart) [1-2]/2: Disp-Num [1] 2013/02/01 06:37 Male / 50 years old level / High-school/ University/ Grad student / Very / Purpose of use for class ...

### Airy function (chart) Calculator - High accuracy calculation

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 $− =$ , known as the Airy equation or the Stokes equation.

### Airy function - Wikipedia

Chapter 5 SPECIAL FUNCTIONS table of content Chapter 5 Special Functions 5.1 Heaviside step function - filter ... Equations solvable in terms of Bessel functions - Airy equation, Airy functions 12. ... The Dirac delta function is a generalized derivative of the Heaviside step function:  $\int \delta(x) dx = 1$

### Chapter 5 Special Functions

The Airy functions occur in the study of integrals of rapidly-oscillating functions, of the form ... This result has been generalized in various directions: ... V.A. Fok. "Tables of the Airy functions" , Moscow (1946) (In Russian) [4]

### Airy functions - Encyclopedia of Mathematics

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### On the Distribution of the Zeros of Generalized Airy Functions

eralized Airy function  $Ai$  . Our graphs and tables are in the Appendix which appears in the microfiche sec-tion of this issue. In Section 2 we describe the graphs and tables and tell how we com-puted them. In Section 3 we show how the generalized Airy functions apply to various difference schemes. 2. Description of the Tables.

### A Dispersion Analysis for Difference Schemes: Tables of ...

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### On the Distribution of the Zeros of Generalized Airy Functions

In the present paper, we have made a detailed study of the generalized Airy functions, which have found wide applications in the field of wave propagation and hydrodynamic stability. A series of tables and graphs are provided for the above functions with complex variables. The results are proved satisfactory.

### Generalized airy functions with complex variables ...

L. N. Nosova and S. A. Tumarkin,Tables of Generalized Airy Functions for the Asymptotic Solution of the Differential Equations, translated by D. E. Brown, Pergamon/McMillan, Oxford 1965 (Russian original. Computing Centre of the Academy of Sciences of the USSR, Moscow, 1961). Google Scholar

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