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**L8.1 Airy functions as**

*Page 4/46*

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## **integrals in the complex plane**

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Using the Residue Theorem  
for improper integrals  
involving multiple-valued  
functions ~~Symmetry in  
Integrals: Examples Calculus  
II — 8.3.1 Integrals~~

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~~Involving Powers of Sine and  
Cosine~~

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Integration ved substitution

(eksempler) **Calculus 2 Final**

**Exam Review Part 1 -**

**Indefinite Integrals,**

**Integration, \u0026amp;**

**Parametric Curves**

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How to Determine if an  
Integral is an Improper  
Integral L8.2 Asymptotic  
expansions of Airy functions

**Differential Equations |  
Series Solutions -- Airy's**

**Equation Theory of  
Elasticity-Lecture 27-Airy's**

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Stress Function Series

solution of ode: Airy's

equation **Series solution of**

**the Airy's equation (Part A)**

**| Lecture 37 | Differential**

**Equations for Engineers**

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What's a Tensor? *Writing*

*Integral in Terms of Itself:*



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~~MIT Integration Bee (21) How  
to Integrate Using U-  
Substitution (NancyPi) 3.2.1  
Asymptotic Notation: Video  
An Exhilarating Journey of  
Integration Airy's Stress  
function A basic integral -  
know your strategies! What~~

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*is BOUNDARY ELEMENT METHOD?*

*What does BOUNDARY ELEMENT*

*METHOD mean? ~~Integration~~*

*~~technique: Dummy Variables~~*

*~~\u0026 Proof: Odd function~~*

*~~over symmetric integral is~~*

*~~always 0 L1.1 General~~*

*~~problem. Non degenerate~~*

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~~perturbation theory~~ The Airy  
Equation - Mathematics -  
Calculus - TU Delft *Calculus*  
*2 | Chapter 10 | Topic: The*  
*Integral Test Computing*  
*Improper Integrals using the*  
*Residue Theorem | Cauchy*  
*Principal Value ~~Airy's~~*

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~~Stress Function for Mode-I  
Integral Calculus: Solids of  
Revolution L7.4 Connection  
formula stated and example  
FACTDOUBLE vs FACT in Taylor  
Series Expansion of Gaussian  
Integral using ERF SQRTPI  
Boundary integral evaluation~~

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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

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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

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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

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limit at the “edge of the  
spectrum” of the level  
spacing

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A large number of indefinite  
integrals of the form



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integral  $\int x^n y_1 y_2 dx$  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

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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

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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  $Ai(x)Bi(x) - (Ai'(x))^2 +$

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$\int_{-\infty}^{\infty} \text{Ai}(x) \text{Bi}(x) dx = 48$  where  $\text{Ai}(x)$   
and  $\text{Bi}(x)$  are the standard  
Airy functions.

IXQFWLROV

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Functions Iopscience The  
function  $\text{Ai}(x - a)\text{Ai}(x - b)$ ,

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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

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(see [27, p. 134]) and

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So the integrals should be  
expressed by Bessel and  
Struve functions. Indeed,  
there occurred some  
exceptions. Generally,

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integrals of the type  $\int_{-\infty}^{\infty} v(x) dx$  may be written with Lommel functions, see [8], 10 -74, or [3], III . In many cases recurrence relations define

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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

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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

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the light of the symmetry

...

In this short paper, we give some integrals involving Volterra  $\mu$ -functions and Airy functions. In particular, we prove that Volterra functions behave as

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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.



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Some Integrals Involving  
Airy Functions and Volterra  
 $\mu$  ...

In terms of Airy functions.  
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series. Primitive of Scorer  
functions. Repeated

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involving algebraic ...

Primitives and Integrals of  
Airy Functions | Airy ...

A new integral  
representation of the Hankel  
transform type is deduced

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for the function  $F_n(x, Z) = Z^{n-1} \text{Ai}(x-Z) \text{Ai}(x+Z)$  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

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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.

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