

Some Integrals Involving The Q Function Dtic

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Some Integrals Involving The Q

Some integrals are presented that can be expressed in terms of the Q-function, which is defined as $\int_0^{\infty} x^{2\alpha-1} \exp(-\beta x^2) Q(a, b) dx$ where $Q(a, b)$ is the modified Bessel function of order zero. Also, integrals of the Q-function are evaluated. Some of the integrals are generalizations of earlier results, but others are new; all de-

Some Integrals Involving the Q-Function

Some integrals involving the Q-function (Corresp.) Abstract:

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Some integrals are presented that can be expressed in terms of the Q_M function, which is defined as
$$Q_M(a,b) = \int_b^{\infty} dx x(x/a)^{M-1} \exp\left(-\frac{x^2 + a^2}{2}\right) I_{M-1}(ax),$$
 where I_{M-1} is the modified Bessel function of order $M-1$.

Some integrals involving the Q_M function ...

Some integrals are presented that can be expressed in terms of the Q_M -function, which is defined as
$$Q_M(a,b) = \int_b^{\infty} dx x(x/a)^{M-1} \exp\left(-\frac{x^2 + a^2}{2}\right) I_{M-1}(ax),$$
 and where I_{M-1} is the modified Bessel function of order $M-1$. Also, some integrals of the Q_M -function are evaluated. All derivations are included in the appendix.

AD-779 846 SOME INTEGRALS INVOLVING THE (Q SUB M) FUNCTION ...

In the report, several integrals of the (Q sub M)-function are evaluated that aid in computing the performance in fading

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channels; direct numerical integration of the $(Q \text{ sub } M)$ -function, which is time-consuming, is therefore circumvented. Numerical evaluation of $(Q \text{ sub } M)$ is considered in another paper.

DTIC AD0779846: Some Integrals Involving the $(Q \text{ sub } M)$

...

Abstract. The integrals involving multivariate q -Laguerre polynomials and then auxiliary ones are studied. In addition, the representations of q -Hermite polynomials by q -Laguerre polynomials and their related integrals are given. At last, some generalized integrals associated with generalized q -Hermite polynomials are deduced.

Cao : Some Integrals Involving q -Laguerre Polynomials and ...

The integral has the form. $f(x) = \int_0^\infty x^a e^{(-b/2)x^2} Q(c-x) dx$. where a, b and c are constants. $Q(\cdot)$ is the gaussian Q

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function. I was wondering if there is a closed form for this integral or it is included in the table of integral under some similar form. Thanks in advance. integration exponential-function gaussian-integral.

integration - Integral Involving Gaussian Q function and

...

Some new results for integrals involving the generalized Marcum Q function and their application to performance evaluation over fading channels. Abstract: This letter evaluates some new integrals whose integrand involves the generalized Marcum Q function, both of whose arguments are linear functions of the integration variable. The resulting closed-form expressions obtained for these integrals are then applied to the error probability evaluation of noncoherent and differentially coherent

...

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Some new results for integrals involving the generalized

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Applications are given to integrals of Bernoulli polynomials, $\ln \Gamma(q)$ and $\ln \sin(q)$. We establish a series of integral formulae involving the Hurwitz zeta function. On Some Integrals Involving the Hurwitz Zeta Function: Part 1 | SpringerLink

On Some Integrals Involving the Hurwitz Zeta Function ...

Indefinite integral. Indefinite integrals are antiderivative functions. A constant (the constant of integration) may be added to the right hand side of any of these formulas, but has been suppressed here in the interest of brevity. Integrals of polynomials

List of integrals of exponential functions - Wikipedia

Integration is the basic operation in integral calculus. While differentiation has straightforward rules by which the derivative

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of a complicated function can be found by differentiating its simpler component functions, integration does not, so tables of known integrals are often useful. This page lists some of the most common antiderivatives

Lists of integrals - Wikipedia

Some Integrals Involving q -Laguerre Polynomials and Applications.pdf. Hindawi Publishing Corporation. Abstract and Applied Analysis. Volume 2013, Article ID 302642, 13 pages.

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Corrections to “Some Integrals Involving the $Q_m(a\sqrt{x})$

...

There are some important integration formulas that are applied for integrating many other standard integrals. In this article, we will look at the integrals of these particular functions. ... Integral $\int [(px + q) / (ax^2 + bx + c)] dx$, where p , q , a , b , and c are constants.

Integral of Particular Functions: Integration Formulas ...

Some Finite Integrals Involving Srivastava's Polynomials and the Aleph Function 467 and (1:9) $\int_0^1 y (1+yt)^i f_i(1+yt)^{ifl} = 2^{-ifl} X_1 \cdot = 0 P(f_i; fl) \cdot (x)^t \cdot$ where (1:10) $y = (1+2xt+t^2)^{-1}$...

Some Finite Integrals Involving Srivastava's Polynomials

...

In recent years the study of fractional q -integral inequalities

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involving functions of independent variables has been an important research subject in mathematical analysis because the inequality technique is also one of the very useful tools in the study of special functions and theory of approximations. During the last two decades or so, several interesting and useful extensions of many of ...

q -Integral inequalities associated with some fractional q

...

In Section 3 we introduce and study some of the properties of two families of functions related to the first derivative with respect to the argument z of the Hurwitz zeta function $\zeta(z, q)$, evaluated at z equal to nonpositive integers. These functions appear in connection to the indefinite integrals involving polygamma and negapolygamma func-

On Some Integrals Involving the Hurwitz Zeta Function:

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Part 2

Example $\int_0^2 e^{1-x} dx$: Evaluating a Definite Integral Involving an Exponential Function. Evaluate the definite integral $\int_0^2 e^{1-x} dx$. Solution. ... $q(t) = 3^t$, where t is given in hours and $q(t)$ is given in thousands of bacteria per hour. ... This problem requires some rewriting to simplify applying the properties. First ...

4.7: Definite integrals by substitution. - Mathematics ...

Integrals involving roots. Ask Question Asked 6 years ago. ... for a graphics application. Issue is I cant take out the terms from the trigonometric functions for a proper known integral format.

Could you give me some suggestions. Problem 1

$$\int \frac{\sin^2(\sqrt{ax^2+bx+c})}{\sqrt{ax^2+bx+c}} dx$$
 ...

calculus - Integrals involving roots - Mathematics Stack ...

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Each integral is different and in some cases there will be more than one way to do the integral. With that being said most, if not all, of integrals involving products of sines and cosines in which both exponents are even can be done using one or more of the following formulas to rewrite the integrand.

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