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...

Integral

involving the Q-Function. Ask Question Asked 4 years ago.

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$\$ \backslash \text{begingroup} \$$

Would anyone help me solving this integral

... Evaluating

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an integral
involving a
Gaussian
function. 0.
Integral
involving
gaussian and
triangle
function. 1.
Evaluating
Integral
involving exp.
0.

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Marcum Q-

function -

Wikipedia

Integration is

the basic

operation in

integral

calculus. While

differentiation

has easy rules

by which the

derivative of a

complicated

function can be

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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

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Some Integrals
Involving The Q
some integrals
involving the q-
function 4

DESCRIPTIVE

Research NOTES

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AUTHORSI (hlint
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Some integrals
involving the Q_M function ...

The integrals
involving
multivariate q -
Laguerre
polynomials and

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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

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associated with
generalized q -
-Hermite
polynomials are
deduced.

Some Integrals
Involving the
Q-Function
SOME INTEGRALS
INVOLVING THE Q
M-FUNCTION
INTRODUCTION The
detection

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probability for a nonfading signal present on M multiple observations and subjected to a quadratic combination of receiver matched-filter outputs is given by the Q_n -function

$$[Ref. 1]: \int_0^{\infty} \frac{1}{2} \left(\frac{Q}{2} \right)^{M-1} \dots$$

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Integrals Involving

The Q_M Function

$$\int_a^b \frac{e^{-24x}}{1 - M(ax)} dx, \quad M > 1. \quad (1)$$

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

...

Some integrals
involving the
 Q_M function
(Corresp.)

Abstract: Some

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integrals are presented that can be expressed in terms of the Q_M function, which is defined as

$$\begin{aligned} & \backslash \text{begin}\{\text{equation}\} \\ & Q_M(a, b) = \\ & \int_b^{\infty} dx \, x (x/a)^{M-1} \\ & \exp \left(- \right. \\ & \left. \frac{x^2 + a^2}{2} \right) \end{aligned}$$

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$I_{M-1}(ax)$,
\end{equation}

where I_{M-1} is the modified Bessel function of order $M-1$.

integration -
Integral
involving the Q-
Function ...

The integrals
involving
multivariate q-

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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,

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some generalized integrals associated with generalized q -Hermite polynomials are deduced.

Corrections to
"Some Integrals Involving the $Q_m(a\sqrt{x} \dots$
Some series and integrals

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The Q Function

involving the

Riemann zeta

function,

binomial.

coefficients and

the harmonic

numbers. Volume

I. Donal F.

Connon. 18

February 2008.

Abstract. In

this series of

seven papers,

predominantly by

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means of
elementary
analysis, we
establish a
number of
identities
related to the
Riemann zeta
function,
including the.

Corrections to
"Some Integrals
Involving the

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Q_m (a ...

Using standard
results for
integrals
involving the
generalized
Marcum Q
function [58],
the upper bound
to the outage
probability
reduces to ...
Physical-layer
security Article

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**Some New Results
for Integrals
Involving
Gaussian Q ...**

**This paper
derives closed-
form formulas
for two
integrals
involving the
generalized
Marcum Q-
function with**

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linear arguments
 $Q_m(a, bx)$. These
integrals are
known to arise
in the ...

Some series and
integrals
involving the
Riemann zeta ...
with modified
Bessel function
of order $M \geq 1$.

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The Marcum Q-function is used for example as a cumulative distribution function (more precisely, as a survivor function) for noncentral chi, noncentral chi-squared and Rice distributions. For non-integer

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values of M , the Marcum Q function can be defined as.

On Some Integrals Involving the Hurwitz Zeta Function ...

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for integrals
involving the
generalized ...
in nature.

Moreover, the
integrals
involving the
generalized
Gauss

hypergeometric
function and the

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Srivastava
polynomial in
Theorem 2.1 to
2.3 reduce to
numbers of
integrals
involving a
large spectrum
of well known
special
functions
functions. Thus,
we can further
obtain various

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integral
formulas
involving a
number of
simpler special
functions.

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Involving
Gaussian Q
function and ...
Here is a set of
practice

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problems to
accompany the
Computing
Indefinite
Integrals
section of the
Integrals
chapter of the
notes for Paul
Dawkins Calculus
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A clarification
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integral form
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Q-function and
some new results
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function. IEEE
Communications

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Letters, 18 (9),
1495-1498.

Article

NUTTALL A H.

Some integrals
involving the Q-
function[R ...

Some new results
for integrals
involving the
generalized
Marcum Q
function and

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their

application to
performance

evaluation over
fading channels

Abstract: This
letter evaluates
some new

integrals whose
integrand

involves the
generalized

Marcum Q

function, both

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of whose
arguments are
linear functions
of the
integration
variable.

Some Integrals
Involving
Generalized
Hypergeometric
...

We establish a
series of

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integral

formulae

involving the

Hurwitz zeta

function.

Applications are

given to

integrals of

Bernoulli

polynomials, \ln

$\Gamma(q)$ and \ln

$\sin(q)$. This

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analysis, we
establish a
number of

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related to the
Riemann zeta
function. Whilst
this paper is
mainly
expository, some
of the formulae
reported in it
are believed to
be

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for integrals

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involving the

Riemann zeta ...

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Involving

Gaussian Q

function and

exponential. Ask

Question ... I

have a question

regarding an

integral that

involves the

Gaussian Q-

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function and exponential. The integral has the form ... 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. ...

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