Some Integrals Involving The Q Function Dtic

[Book] Some Integrals Involving The Q Function Dtic

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Some Integrals Involving The Q

Some Integrals Involving the Q.Function
SOME INTEGRALS INVOLVING THE Q-FUNCTION INTRODUCTION The performance analysis of phase-incoherent receivers in fading or nonfading media requires evaluating the Q--function It is defined as [Ref 1, Eq (16)] "W 2L2 2a2)\ Q(a,b) = 5ixx exp x 2 1 (ax) '0 (1) b where I0 is the modified Bessel function of order zero Physically, the Q-
AD-779 846 SOME INTEGRALS INVOLVING THE (Q SUB M) ...
Some integrals are presented that can be expressed in terms of the Q M-ftiEction, which is defined as / 2 2\ Q M(a,b) = I" dx Hx/*)*"1 exp(- 5-lA^^, and where Ijj-i is the modtfled Bessel function of order M-l Also, some integrals of the Q M-function are evaluated All derivations are included in the appendix I
Some Integral Equations Involving Hypergeometric Functions
SOME INTEGRAL EQUATIONS INVOLVING HYPERGEOMETRIC FUNCTIONS by E R LOVE (Received 16th June 1966) Summary An integral equation of the first kind, with kernel involving a Existenc of thee integrals The following theorem resemble the standars d theore onm existenc aned integrability of a fractional integral (see (31)), tha itf Re k> 0 and
Some Integrals Involving Generalized Hypergeometric ...
in nature Moreover, the integrals involving the generalized Gauss hypergeometric function and the Srivastava polynomial in Theorem 21 to 23 reduce to numbers of integrals involving a large spectrum of well known special functions functions Thus, we can further obtain various integral formulas involving a number of simpler special functions
On Some Integrals Involving the Hurwitz Zeta Function: Part 2
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 ζ(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 Sums and Integrals Involving Bessel Functions

144 ON SOME SUMS AND INTEGRALS INVOLVING BESSEL FUNCTIONS [February In this paper we consider the more general sum n (2) Sm(Py q, a, x, y, n) = E kmakfp+k(x)JQ+k(y), k-I where n may be finite or infinite and where m is a nonnegative integer The parameters p, q, x, y, and a are, in general, arbitrary real or complex numbers

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If are used to compute the integrals (11)—(14) in practice, then we need a means for estimat- ing e CA One possibility is to use estimates of the form (31) where R q (z) is the (q,q) Padé approximant to e: (2q— k)! q! The scaling by Y followed by the repeated squaring greatly enhances the numerical properties of ordinary

COMPUTATION OF SOME WONDERFUL RESULTS INVOLVING ...

Abstract - In this paper we have established some indefinite integrals involving certain polynomials in the form of Hypergeometric function The results represent here are assume to be new Key Words: Hypergeometric function, Lucus Polynomials, Gegenbaur Polynomials, Hermonic number, Bernoulli Polynomials, and Hermite

arXiv:2003.07403v3 [math.CA] 26 May 2020

Some new Fourier and Laplace integrals involving the Gaussian are presented in section 3, and the Orr-Sommerfeld equation with the plane Couette flow mean background [18] is also examined in section 3 In section 4, a general discussion is given 2 Evaluation of the non-elementary integralR xαeηxβ pFq(a 1,a 2,···ap;b 1,b 2,···,bq

Integrals involving Hermite polynomials, generalized ...

an integral involving the product of a generalized hypergeometric series and the H-function using an integral due to Goyal [7, p 202] Srivastava, Gupta and Goyal [17, pp 61{63] presented some integrals

Some Applications of the Residue Theorem Supplementary ...

2 Evaluation of Real-Valued Integrals 21 Definite integrals involving trigonometric functions We begin by briefly discussing integrals of the form Z 2π 0 F(sinat,cosbt)dt (1) Our method is easily adaptable for integrals over a different range, for example between 0 and π or between ±π

Some integrals involving Legendre polynomials and ...

Some integrals involving Legendre polynomials 4335 Recalling that, when p = 2M + 1, 1 +A should be an odd number for the integral in (11) not to vanish, just for the sake of clarity we explicitly write the result given above for the two possible cases I(Z=2L, A = 2R+ 1, p = 2M+ 1) (a) When 1 = 2L (I is even) and A = 2R+ 1 (A is odd) we have

The integrals in Gradshteyn and Ryzhik. Part 25 ...

5 Some integrals involving the exponential function This section presents some examples involving the exponential function Example 51 The evaluation of entry 3:342: (51) Z 1 0 exp(pxlnx)dx= Z 1 0 x pxdx= 1 p X1 k=1 p k k can be established by expanding the integrand in series Indeed, Z 1 0 exp(pxlnx)dx = X1 k=0 (1)kpk k! Z 1 0 (52) x

SOME INTEGRALS INVOLVING PRODUCTS OF

The object of this paper is to establish some integrals involving the products of H-function, G-function and Struve's function or Wright's generalized

hypergeometric function On specializing the parameters of the functions involved in the integrals many results may be obtained as their special cases 1

Some series and integrals involving the Riemann zeta ...

Some series and integrals 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 means of elementary analysis, we establish a number of identities related to the Riemann zeta function, including the following: 00 1

On Some Double Integrals Involving -Function of Two ...

On Some Double Integrals Involving H-Function of Two Variables and Spheroidal Functions wwwiosrjournalsorg 56 | Page A ^ ` ^ ` B ,,, 1011,, 11 1 (1) 1! j hr j M MN r j j h r j j h r hr jj jh Q P j j h r j j h r h j M j N b a z b a r E [D [[E [D [E f z * *

Evaluation of some integrals of sums involving the Möbius ...

described in [11,12] The values of Q(n), M(n), and g(n) were computed according to their definitions, and the integrals involving Q(x), M(x), and g(x)were evaluated in steps covering intervals between consecutive integers, where the integrals can be expressed by elementary functions As an illustration, for I 11, the increment in the interval

Evaluation of Some Improper Integrals Involving Hyperbolic ...

Evaluation of Some Improper Integrals Involving Hyperbolic Functions Michael A Allen In this note I present a result that seems elementary enough to be added to the list of tricks for evaluating integrals taught in a complex variables course, but one to which I have been unable to find any reference It gives a straightforward procedure that

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Sep 18, 2020 · the expansion for loop propagators on the rhs of the cut The AME of loop propagators either removes some propagators from the denominator (if presents in the propagator and De+ = 0) or decouples some loop momenta at the order of j j1=2 from kinematical invariants The later e ect results in some single-scale vacuum integrals multiplied

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