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On some q -operators with applications

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References

1. R.P. Argawal

- Certain fractional q -integrals and q -derivatives**
Proc. Camb. Phil. Soc., 66 (1969), pp. 365–370
2. N.A. Al-Salam
Some operational formulas for the q -Laguerre polynomials
The Fibonacci Quarterly, 22 (1984), pp. 166–170
3. W.A. Al-Salam
Operational representations for the Laguerre and other polynomials
Duke Math. J., 31 (1964), pp. 127–142
4. W.A. Al-Salam
Some fractional q -integrals and q -derivatives
Proc. Edinb. Math. Soc, 15 (1966), pp. 135–140
5. W.A. Al-Salam, L. Carlitz
Some orthogonal q -polynomials
Math. Nachr., 30 (1965), pp. 47–61
6. W.A. Al-Salam, M.E.H. Ismail
Some operational Formulas
J. of Math. Anal, and Appl., 51 (1975), pp. 208–218
7. G.E. Andrews, R. Askey
Classical orthogonal polynomials
Lecture Notes in Mathematics 1171, Springer Verlag (1980)
8. G.G. Bilodeau
Gegenbauer polynomials and fractional derivatives
American Math. Monthly, 71 (1964), pp. 1026–1028
9. J.L. Burchnall
A note on the polynomials of Hermite
Quarterly J. of Math. (Oxf), 12 (1941), pp. 9–11

10. L. Carlitz
A note on the Laguerre polynomials
Michigan Math. J., 7 (1960), pp. 219–223
11. T.S. Chihara
An Introduction to Orthogonal Polynomials
Gordon and Breach (1978)
12. J. Cigler
Operatormethoden für q-Identitäten
Monatshefte für Math., 88 (1979), pp. 87–105
13. J. Cigler
Some remarks on Rota's umbral calculus
Indag. Math., 40 (1978), pp. 27–42
14. H.W. Gould
An expansion of the operator $(xp + q\Delta)nf(x)$
Glasnik Matematički, 8 (1973), pp. 259–272
15. H.W. Gould, A.T. Hopper
Operational formulas connected with two generalizations of Hermite polynomials
Duke Math. J., 29 (1962), pp. 51–64
- Hadwiger, 1943 H. Hadwiger
Über eine Formel mit einem speziellen Differentialoperator
Comm. Math. Helv. (1943), pp. 353–357
17. W. Hahn
Über Orthogonalpolynome die q-Differenzgleichungen genügen
Mathematische Nachrichten, 2 (1949), pp. 4–34
18. M.E.H. Ismail
The basic Bessel functions and polynomials
SIAM J. Math. Anal., 12 (1981), pp. 454–468
19. F.H. Jackson
Generalization of the differential operative

symbol with an extended form of Boole's equation $\theta(\theta-1)\dots(\theta-n+1)=x^n \frac{dn}{dx^n}$

Messenger of Mathematics, 38 (1909), pp. 57–61

20. F.H. Jackson
On generalized functions of Legendre and Bessel
Trans. Royal Soc. Edinburgh, 41 (1903), pp. 1–28
21. T. Koornwinder
Jacobi polynomials, III. An analytic proof of the addition formula
SIAM J. Math. Anal., 6 (1975), pp. 533–543
22. N. Meller
On an operational calculus for the operator $B\alpha$
Vych. Math. Izd-vo Akad. Nauk SSSR #6 (1960), pp. 161–168
23. S. Osipov
On the expansion of a polynomial of the operator $B\alpha$
U.S.S.R. Comput. Math. Phys., 3 (1963), pp. 250–256
24. Rahman, M., An integral representation and some transformation properties of (q -Bessel functions, To appear.
25. O.V. Viskov
L.B. Redei identity for the Laguerre polynomials
Acta Sci. Math., 39 (1977), pp. 27–28
(translated from the russian)
26. E.T. Whittaker, G.N. Watson
A Course of Modern Analysis (1927) Fourth edition, Cambridge

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