

B I B L I O G R A P H Y

- 1 Abel, N.H. : 'Solution de quelques Problèmes à l'aide d'intégrals définites', Oeuvres Complètes, Vol. 1 (1923), pp. 16-18.
- 2 Agrawal, R.P. : 'Sur une generalisation de la transformation de Hankel', Ann.Soc. Sci. Bruxelles(1), 64(1950), pp. 164-168.
- 3 Bateman M. Project : Tables of integral transforms, Vol.I, McGraw Hill, New York, 1954.
- 4 Bateman M. Project : Tables of integral transforms, Vol. II, McGraw Hill, New York, 1954.
- 5 Bhatnagar, K.P. : Bull. Cal. Math. Soc.,46(1954),p.176.
- 6 Bhise, V.M. : Ph.D. Thesis, Vikram Univ., Ujjain (1963).
- 7 Bhise, V.M. : 'Operators of fractional integration and generalized Hankel transform', Collectanea Mathematica, Barceloua, 16(1964), pp.201-209.
- 8 Braaksma, B.L.J. : 'Asymptotic expansions and analytic continuations for a class of Barnes integrals,' Compos. Math. 15(1963), pp. 239-341.
9. Boresma, J. : 'On a function which is the special case of Maijer's G -function', Comp. Math. 15(1962), pp. 34-53.
- 10 Brij Mohan : 'Theorems connecting self-reciprocal functions,' Proc. Banaras Math. Soc. Vol.I. New Series (1939), pp. 93-96.

- 11 Brownwich, T.J.I' A.: An introduction to the theory of infinite series, Macmillan, London, 1959.
- 12 Buschman, R.G. : 'Fractional integration', Math. Japon. 9(1964), pp. 99-106.
- 13 Erdelyi, A. : 'Transformation of Hypergeometric Integrals by Means of Fractional Integration by Parts', Quart. J. Math. Oxford Ser.10(1939), pp. 176-189.
- 14 Erdelyi, A. : 'On fractional integration and its application to the theory of Hankel transform', Quart. Jour. Math. Oxford, 11(1940), pp.292-303.
- 15 Erdelyi, A. : 'On some functional transformations', Univ. e Politec. Torino Rend. Sem. Mat.10 (1950-51) pp. 217-234.
- 16 Erdelyi, A. (Ed) : Higher Transcendental Functions Vol.I. McGraw Hill Publication (1954).
- 17 Erdelyi, A (Ed.) : Higher Transcendental Functions Vol.II, McGraw Hill Publication (1954).
- 18 Erdelyi, A. : 'An integral equation involving Legendre functions', SIAM J.Appl. Math. 12(1964), p.15.
- 19 Erdelyi, A. : 'Axially symmetric potentials and fractional integration',SIAM J. Appl. Math. 13(1965), p. 216.
- 20 Euler, L. : Mémoire dans le tome V des comment. Saint Petersberg Années, 55 (1730).

- 21 Everitt, W.N. : 'On a generalization of Bessel functions and a resulting class of Fourier Kernels', Quart. Jour. Math. Oxford, II 10(1959), pp.270-279.
- 22 Fox, Charles, : 'The asymptotic expansion of generalized hypergeometric function', Proc. London. Math. Soc. 26(2), (1928), pp. 389-400.
- 23 Fox, Charles : 'The G- and H- functions as symmetrical Fourier Kernels', Trans. Amer. Math. Soc., Vol. 98, No.3 (1961), pp. 396-429.
- 24 Grunwald, A.K. : "Uber 'Beyrenzte' Derivationen und deren Anwendung', Z. Angew. Math. Phys. 12 (1867), P. 447.
- 25 Guinand, A.P. : 'A class of Fourier Kernels', Quart. J. Math. Oxford Ser. II 1(1950), pp.191-193.
- 26 Hardy, G.H. : 'On some properties of Integrals of Fractional Order', Messenger Math. 47(1917), pp. 145-150.
- 27 Hardy, G.H. and Littlewood, J.E. : 'Some properties of Fractional Integrals', Proc. London Math. Soc. [2], 24 (1925), pp. 37-41.
- 28 Hardy, G.H. and Littlewood, J.E. : 'Some properties of fractional Integrals I & II', Math. Z.27 (1928) pp. 565-606, 34(1932), pp. 403-439.

- 29 Heaviside, O. : Electromagnetic Theory. Vol.II. Benn,
London, (Reprinted by Dover, New York, 1950).
- 30 Higgins, T.P. : The use of Fractional integral operators
for solving Nonhomogeneous Differential Equations,
Document DI-82-0677, Boeing Sci. Res. Lab.,
Seattle, Washington, 1967.
- 31 Holmgren, H.J. : 'Om differentialekalky len med indices
of hvad nature samhelst', Kgl. Sv. Vetenskapsakad,
Handl. 11(1864).
- 32 Kesarwani, R.N. : 'Fractional Integration and certain
Dual Integral Equations', Math. Z. 98 (1967),
pp. 83-88.
- 33 Kober, H. : 'On fractional integrals and derivatives',
Quart. Jour. Math. Oxford, 11(1940), pp.193-211.
- 34 Koranne, V.D. : 'Application of Transform Methods in
integral Equations And Self-reciprocal functions,'
Ph.D.Thesis, Shivaji University, Kolhapur,1980.
- 35 Krug, A. : 'Theorie Der Derivationen', Akad. Wiss. Wien
Denkschriften, Math. Naturwiss. Kl. 57 (1890),
pp. 151-228.
- 36 Kuttner, B. : 'Some theorems on Fractional Derivatives',
Proc. London. Math. Soc. 3(1953), pp.480-497.
- 37 Lacroix, S.F. : Traité du calcul Différentiel et du
calcul Intégral, 2nd edn., Vol. 3, pp. 409-410.
Courcier, Paris.

- 38 Lagrange, J.L. : 'Sur une nouvelle espèce de calcul relatif à la différentiation et à l'intégration des quantités variables', Nouv. Mem. Acad. Roy. Sci. Belles-Lett. Bertin 3(1772), p. 185.
- 39 Leibnitz, G.W. : Leibnizen Mathematische Schriften, Vol. 2, pp. 301-302, Olms verlag., 1962.
- 40 Liouville, J. : J. Ecole Polytech. 13(1832), Sec. 21, pp. 163-186.
- 41 Love, E.R. and Young, L.C. : Proc. London Math. Soc. (2) 44 (1938), p. 1.
- 42 Lowndes, J.S. : 'A generalization of the Erdelyi-Kober Operators', Proc. Eding-Burgh Math Soc. Ser. II, 17 (1970), pp. 139-148.
43. Mehra, A.N. : Ph.D. Thesis, Lucknow (1958).
44. Meijer, C.S. : 'On the G-function I-VIII', Nederl. Akad. Wetanch. Proc. 49.
45. Mellin, H.J. : 'Adrip einer einheitli chen theorie der Gamma and der Hypergeometrischen Funktionen,' (1910), Math. Ann. 68, pp. 305-337.
46. Mourya, D.P. : 'Fractional integrals of the functions of two variables', Proc. Ind. Acad. Sci. Vol. LXXII No.4, Sect. A (1970), pp. 173-184.
- 47 Narain, R. : 'On a generalization of Hankel transform and self-reciprocal functions', Rendi, Sem. Mat. Torino, 16(1956-57), pp. 269-300.

- 48 Narain, R. : 'A Fourier Kernel,' Math. Zeitschr.,
70(1959), pp. 297-299.
- 49 Narain, R. : 'Fractional integration and Hankel transform',
Rendi, Sem.Mat. Torino, 26(1966-67), pp.87-92.
- 50 Oldham, K.B. and Spanier, J. : The Fractional Calculus,
Academic Press, New York, 1974.
- 51 Osler, T.J. : 'The Fractional Derivative of a composite
Function', SIAM J. Math. Anal. 1 (1970),
pp. 288-293.
- 52 Post, E.L. : 'Generalized differentiation', Trans. Amer.
Math. Soc. 32(1930), p. 723.
- 53 Prabhakar, T.R. : 'Hypergeometric Integral Equations of
a General Kind and Fractional Integration',
SIAM J. Math. Anal. 3(1972), pp. 422-425.
- 54 Riemann, B. : 'Versuch einer allgemeinen Auffassung der
Integration und Differentiation', The collected
works of Bernhard Riemann (H.Weber, ed), 2nd
ed. Dover, New York, 1953.
- 55 Riesz, M. : 'L'integral de Riemann Liouville et le
problème de Cauchy', Acta. Math. 81(1949), p.1.
- 56 Ross, B. : Fractional Calculus and its applications,
(Lecture notes in Mathematics, 457), Berlin,
Springer-Verlag, 1975.

- 57 Saxena, R.K. : Ph.D. Thesis, Vikram Univ., Ujjain (1964).
- 58 Saxena, R.K. and Kumbhat, R.K. : 'A generalization of the Kober operators', Vijnana Parishad Anusandhan Patrika 16 (1973), pp. 31-36.
- 59 Saxena, R.K. and Kumbhat, R.K. : 'Some properties of generalized Kober operators', Vijnana Parishad Anusandhan Patrika 18(1975), pp. 139-150.
- 60 Scott Blair, G.W. : 'The role of psychophysics in rheology', J. Colloid Sci. 2(1947), p.21.
- 61 Sharma, O.P. : 'A study of self-reciprocal functions and generalised Hankel transforms', Ph.D. Thesis, Indore University (1970).
- 62 Sharma, M.C., : 'A theorem on generalized Hankel transform', Proc. Nat. Inst. Sci., India, Vol.29 A, No.1 (1963), pp. 114-119.
- 63 Sneddon, I.N. : 'Fractional Integration and Dual Integral Equations', North Carolina State College, Deptt. of Math. Rept. P.S.R.6 (1962).
- 64 Sneddon, I.N. : The Use of Integral Transforms, Tata McGraw Hill, New Delhi, p. 298.
- 65 Shrivastava, K. : 'Self-reciprocal functions and $\overline{\omega}_{\mu, \nu}$ - transform', Bull. Cal.Math. Soc., Vol. 51, No.2 (1959), pp. 57-65.

- 66 Titchmarsh, E.C. : Introduction to the theory of
Fourier integrals, Oxford, 1948.
- 67 Watson, G.N. : 'Some self-reciprocal functions', Quart.
Jour. Math. Oxford, Ser. 12(1931), pp.298-309.
- 68 Weyl, H. : 'Bemerkungen zum Begriff des Differential-
quotienten gebrochener Ordnung', Vierteljschr.
Naturforsch. Gesellsch. Zurich 62(1917), pp.296-302.
- 69 Wright, E.M. : 'The asymptotic expansion of the
generalized Bessel function', Proc. Lond. Math.
Soc., 38(1935), p. 257.
- 70 Wright, E.M. : 'The generalized Bessel function of order
greater than one', Quart. J. Math. Oxford, Ser.11,
(1940), pp. 36-48.
- 71 Zygmund, A. : Trigonometric series, 2nd ed. (Cambridge
Univ. Press) 1959.