

Samko, St. G.; Kilbas, A. A.; Marichev, O. I.

Fractional integrals and derivatives: theory and applications. Transl. from the Russian.
(English) [Zbl 0818.26003](#)

New York, NY: Gordon and Breach. xxxvi, 976 p. (1993).

See the review of the Russian original (1987) in [Zbl 0617.26004](#).

MSC:

- [26A33](#) Fractional derivatives and integrals
- [26-02](#) Research exposition (monographs, survey articles) pertaining to real functions
- [44A10](#) Laplace transform
- [35Q05](#) Euler-Poisson-Darboux equations
- [34B99](#) Boundary value problems for ordinary differential equations
- [44A15](#) Special integral transforms (Legendre, Hilbert, etc.)
- [45E10](#) Integral equations of the convolution type (Abel, Picard, Toeplitz and Wiener-Hopf type)
- [42A38](#) Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type
- [45B05](#) Fredholm integral equations

Cited in 66 Reviews Cited in 3035 Documents
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Keywords:

integrals and derivatives of fractional order; integral transforms; Erdélyi-Kober operators; fractional integro-differentiation in Hadamard's sense; fractional Weyl integrals; fractional integro-differentiation in M. Riesz' sense; applications to differential equations and integral equations; Euler-Poisson-Darboux equations