

**Podlubny, I.****Solution of linear fractional differential equations with constant coefficients.** (English)[Zbl 0918.34010](#)

Rusev, P. (ed.) et al., Transform methods and special functions. Proceedings of the 1st international workshop, Bankya, Bulgaria, August 12–17, 1994. Sofia: SCT Publishing, 227-237 (1995).

Summary: A method for obtaining explicit analytical solutions to linear differential equations of arbitrary real order with constant coefficients, and initial value problems for such equations, are presented and illustrated by examples.

For the entire collection see [[Zbl 0914.00064](#)].

**MSC:**

- [34A25](#) Analytical theory of ordinary differential equations: series, transformations, transforms, operational calculus, etc.
- [26A33](#) Fractional derivatives and integrals
- [33E20](#) Other functions defined by series and integrals
- [33E30](#) Other functions coming from differential, difference and integral equations
- [44A10](#) Laplace transform
- [44A20](#) Integral transforms of special functions
- [45E10](#) Integral equations of the convolution type (Abel, Picard, Toeplitz and Wiener-Hopf type)
- [34A30](#) Linear ordinary differential equations and systems, general
- [34A05](#) Explicit solutions, first integrals of ordinary differential equations

Cited in **2859** Documents**Keywords:**[explicit analytical solutions](#); [initial value problems](#)