

**Golovach, G. P.; Kalaida, A. F.**

**On linear Fredholm integro-differential equations of the first kind.** (English. Russian original)

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J. Math. Sci., New York 68, No. 6, 748-753 (1994); translation from Vychisl. Prikl. Mat., Kiev 71, 20-27 (1990).

**Summary:** We study the question whether linear one-dimensional integro-differential equations with constant limits of integration (equations of Fredholm type) containing no free differential expression (equations of the first kind) can be reduced to integral equations of the first kind and to Fredholm integro-differential equations of the second kind.

**MSC:**

45J05 Integro-ordinary differential equations

45B05 Fredholm integral equations

**Keywords:**

reduction of integro-differential equations; equations of the first kind; equations of Fredholm type; integro-differential equations; integral equations of the first kind; Fredholm integro-differential equations of the second kind

**Full Text:** [DOI](#)

**References:**

- [1] A. F. Kalaida and R. K. Klimenko, Single-block Matrix Methods of Rank Zero for Solving Linear Problems for One-dimensional Integro-differential Equations of Type  $(m, k)$  [in Russian], UkrNIINITY No. 915UkD84, Kiev (1984).

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