

Exact Solutions > Integral Equations > Linear Fredholm Integral Equations of the Second Kind and Related Integral Equations with Constant Limits of Integration > Wiener-Hopf Equation of the Second Kind

17.
$$y(x) - \int_0^\infty K(x-t)y(t) dt = f(x)$$
.

Wiener-Hopf equation of the second kind.

References

Noble, B., Methods Based on Wiener-Hopf Technique for the Solution of Partial Differential Equations, Pergamon Press, London, 1958

Gakhov, F. D. and Cherskii, Yu. I., Equations of Convolution Type [in Russian], Nauka, Moscow, 1978.

Gohberg, I. (Editor), Continuous and Discrete Fourier Transforms, Extension Problems, and Wiener-Hopf Equations, Birkhauser Verlag, Basel, 1992.

Polyanin, A. D. and Manzhirov, A. V., Handbook of Integral Equations, CRC Press, Boca Raton, 1998.

Wiener-Hopf Equation of the Second Kind

Copyright © 2004 Andrei D. Polyanin

http://eqworld.ipmnet.ru/en/solutions/ie/ie0417.pdf