

ON \mathbb{R} -LINEAR PROBLEM AND TRUNCATED WIENER–HOPF EQUATION

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We consider the \mathbb{R} -linear problem (also known as the Markushevich problem and the generalized Riemann boundary value problem) and the convolution integral equation of the second kind on a finite interval (also known as the truncated Wiener–Hopf equation). We find new conditions for correct solvability of the \mathbb{R} -linear problem and the truncated Wiener–Hopf equation.

Key words and phrases: \mathbb{R} -linear problem, Markushevich problem, Riemann boundary value problem, generalized Riemann boundary value problem, partial indices, convolution, truncated Wiener–Hopf equation, existence of a solution, stability, uniqueness.

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