THE GENERALIZED ABEL’S INTEGRAL EQUATIONS
ON $\mathbb{R}^n$ WITH VARIABLE COEFFICIENTS

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Abstract. The convergent and stable solutions are constructed in the space of Lebesgue integrable functions for the generalized Abel’s integral equations of the second kind with variable coefficients on $\mathbb{R}^n$. Several applicable examples are presented, including one solving the fractional partial differential equation with the initial condition.


Keywords and phrases: Mittag-Leffler function, partial Riemann-Liouville fractional integral, Babenko’s approach, generalized Abel’s integral equation.

REFERENCES


