cases	doc_1		doc_2		decision	id
	authors	• Valerii Los • Vladimir Mikhailets • Aleksandr A. Murach	authors	• Valerii Los • Vladimir Mikhailets • Aleksandr Murach	DUPLICATES	825
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	id	id4989075490424353423	id	id8749887534996910429		
	abstract		abstract	We consider a general inhomogeneous parabolic initial-boundary value problem for a $2b$-parabolic differential equation given in a finite multidimensional cylinder. We investigate the solvability of this problem in some generalized anisotropic Sobolev spaces. They are parametrized with a pair of positive numbers s and $s/(2b)$ and with a function $\varphi:[1,\infty)\to(0,\infty)$ that varies slowly at infinity. The function parameter φ characterizes subordinate regularity of distributions with respect to the power regularity given by the number parameters. We prove that the operator corresponding to this problem is an isomorphism on appropriate pairs of these spaces. As an application, we give a theorem on the local regularity of the generalized solution to the problem. We also obtain sharp sufficient conditions under which chosen generalized derivatives of the solution are continuous on a given set.		
	versions		versions			