

cases	doc_1		doc_2		decision	id
					DUPLICATES	826
	authors	<ul style="list-style-type: none">V. LosV. MikhailetsA. Murach	authors	<ul style="list-style-type: none">Valerii LosVladimir MikhailetsAleksandr Murach		
	title	Parabolic problems in generalized Sobolev spaces	title	Parabolic problems in generalized Sobolev spaces		
	publication_date	2019-07-09 00:00:00	publication_date	2019-07-09 16:36:47+00:00		
	source	SupportedSources.SEMANTIC_SCHOLAR	source	SupportedSources.ARXIV		
	journal		journal	None		
	volume		volume			
	doi	10.3934/cpaa.2021123	doi			
	urls	<ul style="list-style-type: none">https://www.semanticscholar.org/paper/707c898e951aba4fb0bdfed7e0586d1cf8a5cc2d	urls	<ul style="list-style-type: none">http://arxiv.org/pdf/1907.04283v1http://arxiv.org/abs/1907.04283v1http://arxiv.org/pdf/1907.04283v1		
	id	id3819320825886976042	id	id8749887534996910429		
	abstract	<p style="text-indent:20px;">We consider a general inhomogeneous parabolic initial-boundary value problem for a Δ-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 $\varphi:[1,\infty)\rightarrow(0,\infty)$ 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 this solution are continuous on a given set.</p>	abstract	We consider a general inhomogeneous parabolic initial-boundary value problem for a Δ -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 $\varphi:[1,\infty)\rightarrow(0,\infty)$ 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.		
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