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	authors	<ul style="list-style-type: none">Iryna S. ChepurukhinaAleksandr A. Murach	authors	<ul style="list-style-type: none">Iryna S. ChepurukhinaAleksandr A. Murach	NOT DUPLICATES	1915
	title	Elliptic boundary-value problems in the sense of Lawruk on Sobolev and H ^s -Hörmander spaces	title	Elliptic problems in the sense of B. Lawruk on two-sided refined scales of spaces		
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	id	id-6646341041387153951	id	id-6669742905083851075		
	abstract	We investigate elliptic boundary-value problems with additional unknown functions in boundary conditions. These problems were introduced by Lawruk. We prove that the operator corresponding to such a problem is bounded and Fredholm on appropriate couples of the inner product isotropic H ^s ,l ^s , which form the refined Sobolev scale. The order of differentiation for these spaces is given by the real number s and positive function l ^s that varies slowly at infinity in the sense of Karamata. We consider this problem for an arbitrary elliptic equation Au=f on a bounded Euclidean domain Î© under the condition that uâ H ^s ,l ^s (Î©), s<ord A, and fâ L ₂ (Î©). We prove theorems on the a priori estimate and regularity of the generalized solutions to this problem.	abstract	We investigate elliptic boundary-value problems with additional unknown functions on the boundary of a Euclidean domain. These problems were introduced by Lawruk. We prove that the operator corresponding to such a problem is bounded and Fredholm on two-sided refined scales built on the base of the isotropic H ^s -Hörmander inner product spaces. The regularity of the distributions forming these spaces are characterized by a real number and an arbitrary function that varies slowly at infinity in the sense of Karamata. For the generalized solutions to the problem, we prove theorems on a priori estimates and local regularity in these scales. As applications, we find new sufficient conditions under which the solutions have continuous classical derivatives of a prescribed order.		
	versions		versions			