

cases	doc_1		doc_2		decision	id
	authors	<ul style="list-style-type: none">V. Gol'dshteinA. Ukhlov	authors	<ul style="list-style-type: none">V. Gol'dshteinA. Ukhlov	DUPLICATES	254
	title	Weighted Sobolev spaces and embedding theorems	title	Weighted Sobolev spaces and embedding theorems		
	publication_date	2007-03-24 17:52:15+00:00	publication_date	2007-09-04 00:00:00		
	source	SupportedSources.ARXIV	source	SupportedSources.INTERNET_ARCHIVE		
	journal	None	journal			
	volume		volume			
	doi		doi			
	urls	<ul style="list-style-type: none">http://arxiv.org/pdf/math/0703725v4http://arxiv.org/abs/math/0703725v4http://arxiv.org/pdf/math/0703725v4	urls	<ul style="list-style-type: none">https://archive.org/download/arxiv-math0703725/math0703725.pdf		
	id	id-3530939828128535515	id	id1424303502737075825		
	abstract	In the present paper we study embedding operators for weighted Sobolev spaces whose weights satisfy the well-known Muckenhoupt A_p -condition. Sufficient conditions for boundedness and compactness of the embedding operators are obtained for smooth domains and domains with boundary singularities. The proposed method is based on the concept of 'generalized' quasiconformal homeomorphisms (homeomorphisms with bounded mean distortion.) The choice of the homeomorphism type depends on the choice of the corresponding weighted Sobolev space. Such classes of homeomorphisms induce bounded composition operators for weighted Sobolev spaces. With the help of these homeomorphism classes the embedding problem for non-smooth domains is reduced to the corresponding classical embedding problem for smooth domains. Examples of domains with anisotropic H^k -older singularities demonstrate sharpness of our machinery comparatively with known results.	abstract	In the present paper we study embedding operators for weighted Sobolev spaces whose weights satisfy the well-known Muckenhoupt A_p -condition. Sufficient conditions for boundedness and compactness of the embedding operators are obtained for smooth domains and domains with boundary singularities. The proposed method is based on the concept of 'generalized' quasiconformal homeomorphisms (homeomorphisms with bounded mean distortion.) The choice of the homeomorphism type depends on the choice of the corresponding weighted Sobolev space. Such classes of homeomorphisms induce bounded composition operators for weighted Sobolev spaces. With the help of these homeomorphism classes the embedding problem for non-smooth domains is reduced to the corresponding classical embedding problem for smooth domains. Examples of domains with anisotropic H^k -older singularities demonstrate sharpness of our machinery comparatively with known results.		
	versions		versions			