cases

	doc_1	doc_2
authors	• A. Kozhevnikov • Alexander G.Ramm	• Alexander Kozhevnikov • Alexander G. Ramm
title	Integral Operators Basic in Random Fields Estimation Theory	Integral Operators Basic in Random Fields Estimation Theory
publication_date	2004-05-03 00:00:00	2004-05-03 15:24:04+00:00
source	SupportedSources.SEMANTIC_SCHOLAR	SupportedSources.ARXIV
journal	arXiv: Mathematical Physics	None
volume		
doi		
urls	• https://www.semanticscholar.org/paper/c351553937b48e240f838cc1911a3956b14fb436	• http://arxiv.org/pdf/math-ph/0405002v1 • http://arxiv.org/abs/math-ph/0405002v1 • http://arxiv.org/pdf/math-ph/0405002v1
id	id-8798107781112640688	id1851573468644438838
abstract	The paper deals with the basic integral equation of random field estimation theory by the criterion of minimum of variance of the error estimate. This integral equation is of the first kind. The corresponding integra$ operator over a bounded domain $\Omega $ in ${\Bbb R}^{n}$ is weakly singular. This operator is an isomorphism between appropriate Sobolev spaces. This is proved by a reduction of the integral equ$ an elliptic boundary value problem in the domain exterior to $\Omega .$ Extra difficulties arise due to the fact that the exterior boundary value problem should be solved in the Sobolev spaces of negative order.	The paper deals with the basic integral equation of random field estimation theory by the criterion of minimum of variance of the error estimate. This integral equation is of the first kind. The corresponding integra$ operator over a bounded domain $\Omega $ in ${\Bbb R}^{n}$ is weakly singular. This operator is an isomorphism between appropriate Sobolev spaces. This is proved by a reduction of the integral equ$ an elliptic boundary value problem in the domain exterior to $\Omega .$ Extra difficulties arise due to the fact that the exterior boundary value problem should be solved in the Sobolev spaces of negative order.
versions		

decision	id
DUPLICATES	310