cases	doc_1	doc_2	decision	id

doc_1

authors	• Alexander Kozhevnikov • Alexander G.Ramm
title	Integral Operators Basic in Random Fields Estimation Theory
publication_date	2004-05-03 00:00:00
source	SupportedSources.INTERNET_ARCHIVE
journal	
volume	
doi	
urls	• https://archive.org/download/arxiv-math-ph0405002/math-ph0405002.pdf
id	id-3102965136030222420
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 Î© in 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 Î© . Extra difficulties arise due to the fact that the exterior boundary value problem should be solved in the Sobolev spaces of negative order.
versions	

doc_2

authors	• Alexander Kozhevnikov • Alexander G. Ramm
title	Integral Operators Basic in Random Fields Estimation Theory
publication_date	2004-05-03 15:24:04+00:00
source	SupportedSources.ARXIV
journal	None
volume	
doi	
urls	• http://arxiv.org/pdf/math-ph/0405002v1 • http://arxiv.org/abs/math-ph/0405002v1 • http://arxiv.org/pdf/math-ph/0405002v1
id	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.
versions	

decision	id
DUPLICATES	1639