	doc_1		doc_2		decision	id
cases	authors	Alexander G. Ramm	authors	• A.G.Ramm		
	title	Analytical solution of a new class of integral equations	title	Analytical solution of a new class of integral equations		
	publication_date   2003-01-01 00:00:00		publication_date	2003-01-31 00:00:00	]	
	source	SupportedSources.OPENALEX	source	SupportedSources.SEMANTIC_SCHOLAR	NOT DUPLICATES 1678	
	journal	Differential and Integral Equations	journal			
	volume	16	volume			
	doi	10.57262/die/1356060686	doi			
		<ul> <li>https://openalex.org/W2132934867</li> <li>https://doi.org/10.57262/die/1356060686</li> </ul>	urls	https://www.semanticscholar.org/paper/422dea5b4f0a7983e2355b4a0bbfaaac7f791ba0		s 1678
		https://projecteuclid.org/journals/differential- and-integral-equations/volume-16/issue- 2/Analytical-solution-of-a-new-class-of- integral-equations/die/1356060686.pdf	id	id-8556466676793383212		
	urls		abstract	Let (1) Rh = f, $0$ ≤ x ≤ L, Rh = R L $0$ R ( x, y ) h ( y ) dy, where the kernel R ( x, y ) satisi¬es the equation QR = P Î′(x ⬒y). Here Q and P are formal dii¬€erential operators of order n and m < n, respectively, n and m are nonnegative even integers, n > 0, m ≥ 0, Qu := q n ( x ) u ( n ) + P n ⬒1 j = 0 q j ( x ) u ( j ), P h := h ( m ) + P m ⬒1 j = 0 p j ( x ) h ( j ), q n ( x ) ≥ c > 0, the coeï¬fcients q j ( x ) and p j ( x ) are smooth functions deï¬ned on R, Î′(x) is the delta-function, f ⬠H α (0, L), α := n ⬒ m 2, H α is the Sobolev space. An algorithm for i¬nding analytically the unique solution h â¬ Ē¬M H ⬒ α (0, L) to (1) of minimal order of singularity is given. Here ǬM H ⬒ α (0, L) is the dual space to H α (0, L) with respect to the inner product of L 2 (0, L). Under		
	id	id8663255875915080473		witable assumptions it is proved that R : $\ddot{E}^{TM}$ H $\hat{a}^{-1}$ $\dot{E}$ $(0, L)$ $\hat{a}$ $\dot{f}^{+}$ $\hat{H}$ $\hat{E}$ $(0, L)$ is an isomorphism. is basic equation of random processes estimation theory. Some		
	abstract			of the results are to the of multidimensional equation (1), in which case this is the basic equation of random i relds estimation theory.		
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