

## Multiple integrals operators and multivariable Aleph-functions

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### ABSTRACT

In this paper we obtained generalized fractional integrals concerning the product of the multivariable Aleph-functions, general class of polynomials of one and several variables and sequences of functions in the form of four theorems. At the end, we shall two corollaries.

**KEYWORDS :** Aleph-function of several variables, fractional integral operators, general class of polynomials, sequence of functions.

**2010 Mathematics Subject Classification.** 33C99, 33C60, 44A20

### 1. Introduction and preliminaries.

A.K. Sharma and S.C. Sharma [5] have studied four theorems concerning generalized fractional integrals involving the product of two multivariable H-functions and general classes of polynomials of one and several variables. The aim of this paper is to establish four theorems concerning multiple integrals operators of the product of two multivariable Aleph-functions, classes of polynomials of one and several variables and sequence of functions.

For this study, we need the following series formula for the general sequence of functions introduced by Agrawal and Chaubey [1] and was established by Salim [3].

$$R_{\alpha, \beta}^{-\delta}[x; E, F, g, h; p, q; \gamma; \delta; e^{-\lambda x}] = \sum_{w, v, u, t', e, k_1, k_2} \psi(w, v, u, t', e, k_1, k_2) x^Q \quad (1.1)$$

$$\text{where } \psi(w, v, u, t', e, k_1, k_2) = \frac{(-)^{t'+w+k_2} (-v)_\alpha (-t')_\alpha (\alpha)_t t^n}{w! v! u! t'! e! k_1! k_2!} \frac{g^{w+k_1} F^{\gamma n - t'}}{(1 - \alpha - t')_\alpha (-\alpha - \gamma n)_\alpha (-\beta - \delta n)_\alpha}$$

$$g^{v+k_2} h^{\delta n - \alpha - k_2} (v - \delta n)_{k_2} E^{t'} \left( \frac{pe + \tau w + \lambda + qn}{t} \right)_n \quad (1.2)$$

$$\text{and } \sum_{w, v, u, t', e, k_1, k_2} = \sum_{w=0}^{\infty} \sum_{v=0}^n \sum_{u=0}^e \sum_{t'=0}^n \sum_{e=0}^{t'} \sum_{k_1, k_2=0}^{\infty}$$

The infinite series in the right hand side of (1.3) is absolutely convergent and  $Q = tn + qv + pt' + \tau w + \tau k_1 + k_2 \alpha$ . We shall note  $R_{\alpha, \beta}^{-\delta}[x; E, F, g, h; p, q; \gamma; \delta; e^{-\lambda x}] = R_{\alpha, \beta}^{-\delta}(x)$  (1.3)

The generalized polynomials of multivariables defined by Srivastava [8, p.185, Eq.(7)], is given in the following manner :

$$S_{N_1, \dots, N_r}^{\mathfrak{M}_1, \dots, \mathfrak{M}_r}(y_1, \dots, y_r) = \sum_{K_1=0}^{[N_1/\mathfrak{M}_1]} \dots \sum_{K_r=0}^{[N_r/\mathfrak{M}_r]} \frac{(-N_1)_{\mathfrak{M}_1, K_1}}{K_1!} \dots \frac{(-N_r)_{\mathfrak{M}_r, K_r}}{K_r!} A[N_1, K_1; \dots; N_r, K_r] y_1^{K_1} \dots y_r^{K_r} \quad (1.4)$$

where  $\mathfrak{M}_1, \dots, \mathfrak{M}_r$  are arbitrary positive integers and the coefficients  $A[N_1, K_1; \dots; N_r, K_r]$  are arbitrary constants, real or complex.

We shall note

$$a_r = \frac{(-N_1)_{\mathfrak{M}_1, K_1}}{K_1!} \dots \frac{(-N_r)_{\mathfrak{M}_r, K_r}}{K_r!} A[N_1, K_1; \dots; N_r, K_r] \quad (1.5)$$

# Integrals And Operators

**Stefan Bergman**



## **Integrals And Operators:**

**Integrals and Operators** Irving E. Segal, Ray A. Kunze, 1978      **Integral Operators in the Theory of Linear Partial Differential Equations** Stefan Bergman, 2012-12-06 The present book deals with the construction of solutions of linear partial differential equations by means of integral operators which transform analytic functions of a complex variable into such solutions The theory of analytic functions has achieved a high degree of development and simplicity and the operator method permits us to exploit this theory in the study of differential equations Although the study of existence and uniqueness of solutions has been highly developed much less attention has been paid to the investigation of functional properties and to the explicit construction of regular and singular solutions using a unified general procedure This book attempts to fill in the gap in this direction Integral operators of various types have been used for a long time in the mathematical literature In this connection one needs only to mention Euler and Laplace The author has not attempted to give a complete account of all known operators but rather has aimed at developing a unified approach For this purpose he uses special operators which preserve various functional properties of analytic functions such as domains of regularity validity of series development connection between the coefficients of these developments and location and character of singularities etc However all efforts were made to give a complete bibliography to help the reader to find more detailed information

**Integrals and Operators** Irving Ezra Segal, Ray Alden Kunze, 1968      Bounded Integral Operators on  $L_2$  Spaces P. R. Halmos, V. S. Sunder, 2012-12-06 The subject The phrase integral operator like some other mathematically informal phrases such as effective procedure and geometric construction is sometimes defined and sometimes not When it is defined the definition is likely to vary from author to author While the definition almost always involves an integral most of its other features can vary quite considerably Superimposed limiting operations may enter such as  $L_2$  limits in the theory of Fourier transforms and principal values in the theory of singular integrals  $L_2$  spaces and abstract Banach spaces may intervene a scalar may be added as in the theory of the so called integral operators of the second kind or more generally a multiplication operator may be added as in the theory of the so called integral operators of the third kind The definition used in this book is the most special of all According to it an integral operator is the natural continuous generalization of the operators induced by matrices and the only integrals that appear are the familiar Lebesgue Stieltjes integrals on classical non pathological measure spaces The category Some of the flavor of the theory can be perceived in finite dimensional linear algebra Matrices are sometimes considered to be an unnatural and notationally inelegant way of looking at linear transformations From the point of view of this book that judgement misses something

**Linear Integral Operators** Konrad Jörgens, 1982      **Singular Integral Operators** Solomon G. Mikhlin, Siegfried Prößdorf, 1987 The present edition differs from the original German one mainly in the following additional material weighted norm inequalities for maximal functions and singular operators 12 Chap XI polysingular integral operators and pseudo differential operators 7 8 Chap XII

and spline approximation methods for solving singular integral equations 4 Chap XVII Furthermore we added two subsections on polynomial approximation methods for singular integral equations over an interval or with discontinuous coefficients Nos 3 6 and 3 7 Chap XVII In many places we incorporated new results which in the vast majority are from the last five years after publishing the German edition note that the references are enlarged by about 150 new titles S G Mikhlin wrote 7 8 Chap XII and the other additions were drawn up by S Prossdorf We wish to express our deepest gratitude to Dr A Bottcher and Dr R Lehmann who together translated the text into English carefully and with remarkable expertise

*Integral Operators in Non-Standard Function Spaces* Vakhtang Kokilashvili, Alexander Meskhi, Humberto Rafeiro, Stefan Samko, 2016-05-11 This book the result of the authors long and fruitful collaboration focuses on integral operators in new non standard function spaces and presents a systematic study of the boundedness and compactness properties of basic harmonic analysis integral operators in the following function spaces among others variable exponent Lebesgue and amalgam spaces variable Hlder spaces variable exponent Campanato Morrey and Herz spaces Iwaniec Sbordone grand Lebesgue spaces grand variable exponent Lebesgue spaces unifying the two spaces mentioned above grand Morrey spaces generalized grand Morrey spaces and weighted analogues of some of them The results obtained are widely applied to non linear PDEs singular integrals and PDO theory One of the book s most distinctive features is that the majority of the statements proved here are in the form of criteria The book is intended for a broad audience ranging from researchers in the area to experts in applied mathematics and prospective students

Singular Integral Operators, Factorization and Applications Albrecht Böttcher, Marinus A. Kaashoek, Amarino Brites Lebre, Antonio, F. dos Santos, Frank-Olme Speck, 2012-12-06 This volume contains the proceedings of the International Workshop on Operator Theory and Applications held at the University of Algarve in Faro Portugal September 12 15 in the year 2000 The main topics of the conference were Factorization Theory Factorization and Integrable Systems Operator Theoretical Methods in Diffraction Theory Algebraic Techniques in Operator Theory Applications to Mathematical Physics and Related Topics A total of 94 colleagues from 21 countries participated in the conference The major part of participants came from Portugal 32 Germany 17 Israel 6 Mexico 6 the Netherlands 5 USA 4 and Austria 4 The others were from Ukraine Venezuela 3 each Spain Sweden 2 each Algeria Australia Belorussia France Georgia Italy Japan Kuwait Russia and Turkey one of each country It was the 12th meeting in the framework of the IWOTA conferences which started in 1981 on an initiative of Professors 1 Gohberg Tel Aviv and J W Helton San Diego Up to now it was the largest conference in the field of Operator Theory in Portugal

*Integral Operators in Non-Standard Function Spaces* Vakhtang Kokilashvili, Alexander Meskhi, Humberto Rafeiro, Stefan Samko, 2024-10-18 The present monograph serves as a natural extension of the prior 2 volume monograph with the same title and by the same authors which encompassed findings up until 2014 This four volume project encapsulates the authors decade long research in the trending topic of nonstandard function spaces and operator theory One of the main novelties of the present book is to develop the

extrapolation theory generally speaking in grand Banach function spaces and to apply it for obtaining the boundedness of fundamental operators of harmonic analysis in particular function spaces such as grand weighted Lebesgue and Lorentz spaces grand variable exponent Lebesgue Morrey spaces mixed normed function spaces etc Embeddings in grand variable exponent Haj asz Sobolev spaces are also studied Some applications to the approximation theory and boundary value problems of analytic functions are presented as well The book is aimed at an audience ranging from researchers in operator theory and harmonic analysis to experts in applied mathematics and post graduate students In particular we hope that this book will serve as a source of inspiration for researchers in abstract harmonic analysis function spaces PDEs and boundary value problems

**Partial Integral Operators and Integro-Differential Equations** Jurgen Appell, Anatolij Kalitvin, Petr Zabrejko, 2000-02-29 A self contained account of integro differential equations of the Barbashin type and partial integral operators It presents the basic theory of Barbashin equations in spaces of continuous or measurable functions including existence uniqueness stability and perturbation results The theory and applications of partial integral operators and linea

Introduction to Pseudodifferential and Fourier Integral Operators Volume 2 François Trèves, 1980 **Singular Integral Operators and Related Topics** A. Böttcher, I. Gohberg, 2012-12-06 This volume presents the proceedings of the Joint German Israeli Workshop on linear one dimensional singular integral equations held in Tel Aviv from March 1 10 1995 The volume contains a selection of papers in modern operator theory and its applications The main topics of the workshop were symbol calculus index formulas projection and quadrature methods for Toeplitz and singular integral operators with different symbols algebras generated by such operators and algebras generated by idempotents The other topics discussed were inverse scattering problems for differential operators distribution of zeros for orthogonal functions factorization of matrix functions and calculation of norms The book will be appreciated by a wide audience in the mathematical and engineering sciences

Nonlinear Integral Operators and Applications Carlo Bardaro, Julian Musielak, Gianluca Vinti, 2003 This volume presents a comprehensive treatment of approximation theory by means of nonlinear integral operator in function spaces In particular the fundamental notions of approximate identity for kernels of nonlinear operators and a general concept of modulus of continuity are developed

Bounded and Compact Integral Operators David E. Edmunds, V.M Kokilashvili, Alexander Meskhi, 2013-06-29 The monograph presents some of the authors recent and original results concerning boundedness and compactness problems in Banach function spaces both for classical operators and integral transforms defined generally speaking on nonhomogeneous spaces It focuses on integral operators naturally arising in boundary value problems for PDE the spectral theory of differential operators continuum and quantum mechanics stochastic processes etc The book may be considered as a systematic and detailed analysis of a large class of specific integral operators from the boundedness and compactness point of view A characteristic feature of the monograph is that most of the statements proved here have the form of criteria These criteria enable us for example to give various explicit examples of

pairs of weighted Banach function spaces governing boundedness compactness of a wide class of integral operators The book has two main parts The first part consisting of Chapters 1 5 covers the investigation of classical operators Hardy type transforms fractional integrals potentials and maximal functions Our main goal is to give a complete description of those Banach function spaces in which the above mentioned operators act boundedly compactly When a given operator is not bounded compact for example in some Lebesgue space we look for weighted spaces where boundedness compactness holds We develop the ideas and the techniques for the derivation of appropriate conditions in terms of weights which are equivalent to boundedness compactness

Introduction to Pseudodifferential and Fourier Integral Operators Jean-François Treves, 2013-12-11 I have tried in this book to describe those aspects of pseudodifferential and Fourier integral operator theory whose usefulness seems proven and which from the viewpoint of organization and presentability appear to have stabilized Since in my opinion the main justification for studying these operators is pragmatic much attention has been paid to explaining their handling and to giving examples of their use Thus the theoretical chapters usually begin with a section in which the construction of special solutions of linear partial differential equations is carried out constructions from which the subsequent theory has emerged and which continue to motivate it parametrices of elliptic equations in Chapter I introducing pseudodifferential operators of type 1 0 which here are called standard of hypoelliptic equations in Chapter IV devoted to pseudodifferential operators of type p 8 fundamental solutions of strongly hyperbolic Cauchy problems in Chapter VI which introduces from a naive standpoint Fourier integral operators and of certain nonhyperbolic forward Cauchy problems in Chapter X Fourier integral operators with complex phase Several chapters II III IX XI and XII are devoted entirely to applications Chapter II provides all the facts about pseudodifferential operators needed in the proof of the Atiyah Singer index theorem then goes on to present part of the results of A Calderon on uniqueness in the Cauchy problem and ends with a new proof due to J J Kohn of the celebrated sum of squares theorem of L Hormander a proof that beautifully demonstrates the advantages of using pseudodifferential operators

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Krupnik, 2013-11-22 About fifty years ago S G Mikhlin in solving the regularization problem for two dimensional singular integral operators 56 assigned to each such operator a function which he called a symbol and showed that regularization is possible if the infimum of the modulus of the symbol is positive Later the notion of a symbol was extended to multidimensional singular integral operators of arbitrary dimension 57 58 21 22 Subsequently the synthesis of singular integral and differential operators 2 8 9 led to the theory of pseudodifferential operators 17 35 see also 35 1 35 17 which are naturally characterized by their symbols An important role in the construction of symbols for many classes of operators was played by Gelfand's theory of maximal ideals of Banach algebras 201 Using this the necessary criteria were obtained for Fredholmness of one dimensional singular integral operators with continuous coefficients 34 42 Wiener Hopf operators 37

and multidimensional singular integral operators 38 2 The investigation of systems of equations involving such operators has led to the notion of matrix symbol 59 12 14 39 41 This notion plays an essential role not only for systems but also for singular integral operators with piecewise continuous scalar coefficients 44 4 At the same time attempts to introduce a scalar or matrix symbol for other algebras have failed

*Singular Integral Operators, Quantitative Flatness, and Boundary Problems* Juan José Marín, José María Martell, Dorina Mitrea, Irina Mitrea, Marius Mitrea, 2022-09-29 This monograph provides a state of the art self contained account on the effectiveness of the method of boundary layer potentials in the study of elliptic boundary value problems with boundary data in a multitude of function spaces Many significant new results are explored in detail with complete proofs emphasizing and elaborating on the link between the geometric measure theoretic features of an underlying surface and the functional analytic properties of singular integral operators defined on it Graduate students researchers and professionals interested in a modern account of the topic of singular integral operators and boundary value problems as well as those more generally interested in harmonic analysis PDEs and geometric analysis will find this text to be a valuable addition to the mathematical literature

*Fourier Integral Operators* J.J. Duistermaat, 2010-11-03 This volume is a useful introduction to the subject of Fourier Integral Operators and is based on the author's classic set of notes Covering a range of topics from Hörmander's exposition of the theory Duistermaat approaches the subject from symplectic geometry and includes application to hyperbolic equations equations of wave type and oscillatory asymptotic solutions which may have caustics This text is suitable for mathematicians and theoretical physicists with an interest in linear partial differential equations especially in wave propagation rep WKB methods

*Nonlinear Integral Operators and Applications* Carlo Bardaro, Julian Musielak, Gianluca Vinti, 2008-08-22 In 1903 Fredholm published his famous paper on integral equations Since then linear integral operators have become an important tool in many areas including the theory of Fourier series and Fourier integrals approximation theory and summability theory and the theory of integral and differential equations As regards the latter applications were soon extended beyond linear operators In approximation theory however applications were limited to linear operators mainly by the fact that the notion of singularity of an integral operator was closely connected with its linearity This book represents the first attempt at a comprehensive treatment of approximation theory by means of nonlinear integral operators in function spaces In particular the fundamental notions of approximate identity for kernels of nonlinear operators and a general concept of modulus of continuity are developed in order to obtain consistent approximation results Applications to nonlinear summability nonlinear integral equations and nonlinear sampling theory are given In particular the study of nonlinear sampling operators is important since the results permit the reconstruction of several classes of signals In a wider context the material of this book represents a starting point for new areas of research in nonlinear analysis For this reason the text is written in a style accessible not only to researchers but to advanced students as well

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