

Fractional Integral

Denote the n th derivative D^n and the n -fold integral D^{-n} . Then

$$D^{-1} f(t) = \int_0^t f(\xi) d\xi. \tag{1}$$

Now, if the equation

$$D^{-n} f(t) = \frac{1}{(n-1)!} \int_0^t (t-\xi)^{n-1} f(\xi) d\xi \tag{2}$$

for the multiple integral is true for n , then

$$D^{-(n+1)} f(t) = D^{-1} \left[\frac{1}{(n-1)!} \int_0^t (t-\xi)^{n-1} f(\xi) d\xi \right] \tag{3}$$

$$= \int_0^t \left[\frac{1}{(n-1)!} \int_0^x (x-\xi)^{n-1} f(\xi) d\xi \right] dx. \tag{4}$$

Interchanging the order of integration gives

Fractional Calculus With An Integral Operator Containing A

Keith B. Oldham, Jerome Spanier



Fractional Calculus With An Integral Operator Containing A:

Advances in Mathematical Modelling, Applied Analysis and Computation Jagdev Singh, George A. Anastassiou, Dumitru Baleanu, Carlo Cattani, Devendra Kumar, 2022-10-13 This book is a valuable source for graduate students and researchers and provides a comprehensive introduction to recent theories and applications of mathematical modeling and numerical simulation It includes selected peer reviewed papers presented at the 4th International Conference on Mathematical Modelling Applied Analysis and Computation ICMMAAC 2021 held at JECRC University Jaipur India during August 5 7 2021 The book is focused on mathematical modeling of various problems arising in science and engineering and new efficient numerical approaches for solving linear nonlinear problems and rigorous mathematical theories which can be used to analyze different kinds of mathematical models Applications of mathematical methods in physics chemistry biology mechanical engineering civil engineering computer science social science and finance are presented *Frontiers in Physics - 2017 & 2018 Editor's Choice* Thomas Beyer, Ewald Moser, Dieter W. Heermann, Christian F. Klingenberg, James Sauls, José W. F. Valle, Jan de Boer, Emilio Elizalde, Dumitru Baleanu, Alex Hansen, Nicholas X. Fang, Lorenzo Pavesi, Bretislav Friedrich, Christine Charles, Matjaž Perc, Jasper Van Der Gucht, Rudolf von Steiger, Claudio Bogazzi, 2019-02-22 Launched in 2013 *Frontiers in Physics* consists of 18 specialties covering all areas of research in physics With over 500 published manuscripts the journal is now indexed in SCIE with the first impact factor coming in 2019 *Frontiers in Physics* aims to become the largest and most cited open access multidisciplinary physics journal This eBook collects what the Specialty Chief Editors of the journal believed were the most interesting manuscripts published over the past two years It is a nice collection which will offer the reader the chance to have a quick overview of the specialties of the journal and offer a glimpse into the state of the art of physics We must confess that it has been quite challenging to select only one article per specialty section given the many important manuscripts published by the journal in 2017 and 2018 We invite our reader to have a look at the journal homepage and browse what we have published so far It includes articles on topics very different from each other written by both early career scientists and well known researchers ranging from the indisputable advance of the field to the more bold We hope you enjoy reading our first edition of the *Frontiers in Physics Editor's Choice eBook* Professor Alex Hansen Field Chief Editor and Dr Claudio Bogazzi Journal Manager **Approximation Theory and Analytic Inequalities** Themistocles M. Rassias, 2021-07-21 This contributed volume focuses on various important areas of mathematics in which approximation methods play an essential role It features cutting edge research on a wide spectrum of analytic inequalities with emphasis on differential and integral inequalities in the spirit of functional analysis operator theory nonlinear analysis variational calculus featuring a plethora of applications making this work a valuable resource The reader will be exposed to convexity theory polynomial inequalities extremal problems prediction theory fixed point theory for operators PDEs fractional integral inequalities multidimensional numerical integration Gauss Jacobi and Hermite Hadamard type inequalities Hilbert

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Fractional Calculus Varsha Daftardar-Gejji, 2013-07-26 FRACTIONAL CALCULUS Theory and Applications deals with differentiation and integration of arbitrary order The origin of this subject can be traced back to the end of seventeenth century the time when Newton and Leibniz developed foundations of differential and integral calculus Nonetheless utility and applicability of FC to various branches of science and engineering have been realized only in last few decades Recent years have witnessed tremendous upsurge in research activities related to the applications of FC in modeling of real world systems Unlike the derivatives of integral order the non local nature of fractional derivatives correctly models many natural phenomena containing long memory and give more accurate description than their integer counterparts The present book comprises of contributions from academicians and leading researchers and gives a panoramic overview of various aspects of this subject Introduction to Fractional Calculus Fractional Differential Equations Fractional Ordered Dynamical Systems Fractional Operators on Fractals Local Fractional Derivatives Fractional Control Systems Fractional Operators and Statistical Distributions Applications to Engineering

Basic Theory Anatoly Kochubei, Yuri Luchko, 2019-02-19 This multi volume handbook is the most up to date and comprehensive reference work in the field of fractional calculus and its numerous applications This first volume collects authoritative chapters covering the mathematical theory of fractional calculus including fractional order operators integral transforms and equations special functions calculus of variations and probabilistic and other aspects

Mathematical and Computational Intelligence to Socio-scientific Analytics and Applications Pankaj Srivastava, M. Lellis Thivagar, Georgia Irina Oros, Chai Ching Tan, 2023-01-02 This book presents a collection of selected papers presented at the 22nd FAI International Conference on Mathematical Computational Intelligence and Engineering Approaches to Healthcare Business and Tourism Analytics FAI ICMCIE 2020 held at American College Madurai India from 20-22 December 2020 This book discusses advanced mathematical concepts and computational intelligence approaches for medical diagnostic approach in cardiac diseases nano topology in medical diseases stability of indicators in assessing business development AI guided paradigmatic competence in science and spirituality integration neural network TOPSIS analytics in hotel service quality itinerary planning destination ranking tourism analytics molecular modeling and docking simulation for unraveling medicinal properties value oriented approach on commercial banks security Brownian motion in shares of the bank internet of things linking to social media and e commerce and more which are discussed by using fuzzy analytics nano topology statistical TOPSIS and neural network tools

Mathematical Methods in Medical and Biological Sciences Harendra Singh, Hari M Srivastava, 2024-11-05 Mathematical Methods in Medical and Biological Sciences presents mathematical methods for computational models arising in the medical and biological sciences

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Mathematical Analysis and Applications Themistocles M. Rassias, Panos M. Pardalos, 2019-12-12 An international community of experts scientists comprise the research and survey contributions in this volume which covers a broad spectrum of areas in which analysis plays a central role Contributions discuss theory and problems in real and complex analysis functional analysis approximation theory operator theory analytic inequalities the Radon transform nonlinear analysis and various applications of interdisciplinary research some are also devoted to specific applications such as the three body problem finite element analysis in fluid mechanics algorithms for difference of monotone operators a vibrational approach to a financial problem and more This volume is useful to graduate students and researchers working in mathematics physics engineering and economics

Fractional Integrals and Potentials Boris Rubin, 1996-06-24 This volume presents recent developments in the fractional calculus of functions of one and several real variables and shows the relation of this field to a variety of areas in pure and applied mathematics Beyond some basic properties of fractional integrals in one and many dimensions it contains a mathematical theory of certain important weakly singular integral equations of the first kind arising in mechanics diffraction theory and other areas of mathematical physics The author focuses on explicit inversion formulae that can be obtained by making use of the classical Marchaud s approach and its generalization leading to wavelet type representations

Recent Developments in Algebra and Analysis Ho-Hon Leung, R. Sivaraj, Firuz Kamalov, 2024-02-22 This volume collects the proceedings of the International Conference on Recent Developments in Mathematics ICRDM held at Canadian University Dubai UAE in August 2022 It is the first of two volumes this first volume focuses on recent advances in algebra and analysis and the second volume covers more applied topics Each chapter identifies existing challenges in these theoretical areas and highlights the importance of establishing new theorems and algorithms to address them Recent Developments in Algebra and Analysis will appeal to a range of postgraduate students and researchers who are interested in exploring more on these areas and play an integral role in modern science

The Fundamentals of

Fractional Calculus Dharmendra Kumar Singh, Mehmet Yavuz, 2025-09-23 Fractional calculus is one of the most important divisions of theoretical and applied mathematics This new book presents a wide variety of interesting technologies and practices used in fractional calculus providing detailed insight into recent developments and the latest research in the field of science engineering etc using fractional calculus The result of the teaching experiences of the editors and authors to engineering and science students the volume discusses fractional calculus via generalized functions and integral transforms of pathway type Laplace transformation of fractional integrals and derivatives estimating the order of derivation in a fractional differential equation a new class of integro differential equations with non singular differential operators various uses of the Caputo approach a gingerbread man discrete system etc The various applications of fractional calculus are shown with examples such as for creating and or solving epidemic models alcoholism models model for divorce dynamics and more Giving a rigorous and thorough analysis of various aspects of fractional calculus this volume helps scientific readers as well as researchers working in the area of fractional calculus to establish the key steps followed in the research methodology and concept development

The Fractional Calculus Keith B. Oldham, Jerome Spanier, 2006 Not only does this text explain the theory underlying the properties of the generalized operator but it also illustrates the wide variety of fields to which these ideas may be applied Topics include integer order simple and complex functions semiderivatives and semi integrals and transcendental functions 1974 edition

Journal of Fractional Calculus, 2002 **AIAA Journal** American Institute of Aeronautics and Astronautics, 1997

Fractional Calculus Behzad Ghanbari, 2024-06-21 Fractional Calculus Bridging Theory with Computational and Contemporary Advances is an authoritative and comprehensive guide that delves into the world of fractional calculus offering a unique blend of theoretical foundations numerical algorithms practical applications and innovative perspectives This book explores the mathematical framework of fractional calculus and its relevance across various disciplines providing readers with a deep understanding of this rapidly growing field The author presents a rigorous yet accessible approach to fractional calculus making it suitable for mathematicians researchers academics graduate students and professionals in engineering and applied sciences The book covers a wide range of topics including numerical methods for fractional calculus equations fractional differential equations fractal dynamics and fractional control systems It also explores applications in areas such as physics engineering signal processing and data analysis

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Recent Trends in Fractional Calculus and Its Applications Praveen Agarwal,Luis Vázquez Martínez,Ervin K. Lenzi,2024-07-02 Recent Trends in Fractional Calculus and Its Applications addresses the answer to this very basic question Why is Fractional Calculus important Until recent times Fractional Calculus was considered as a rather esoteric mathematical theory without applications but in the last few decades there has been an explosion of research activities on the application of Fractional Calculus to very diverse scientific fields ranging from the physics of diffusion and advection phenomena to control systems to finance and economics An important part of mathematical modelling of objects and processes is a description of their dynamics The term Fractional Calculus is more than 300 years old It is a generalization of the ordinary differentiation and integration to noninteger arbitrary order The subject is as old as the calculus of differentiation and goes back to times when Leibniz Gauss and Newton invented this kind of calculation Several mathematicians contributed to this subject over the years People like Liouville Riemann and Weyl made major contributions to the theory of Fractional Calculus In recent decades the field of Fractional Calculus has attracted the interest of researchers in several areas including mathematics physics chemistry engineering finance and social sciences Provides the most recent and up to date developments in the Fractional Calculus and its application areas Presents pre preparation ideas to help researchers scientists clinicians face the new challenges in the application of fractional differential equations Helps researchers and scientists understand the importance of the Fractional Calculus to solve many problems in Biomedical Engineering and applied sciences

Univalent Functions, Fractional Calculus, and Their Applications H. M. Srivastava,Shigeyoshi Owa,1989 [Generalized Fractional Calculus and Applications](#) Virginia S Kiryakova,1993-12-27 In this volume various applications are discussed in particular to the hyper Bessel differential operators and equations Dzrbashjan Gelfond Leontiev operators and Borel type transforms convolutions new representations of hypergeometric functions solutions to classes of differential and integral equations transmutation method and generalized integral transforms Some open problems are also posed This book is intended for graduate and post graduate students lecturers researchers and others working in applied mathematical analysis mathematical physics and related disciplines

Mathematical Reviews ,2007 **Proceedings of the Conference on Complex Analysis** Zhong Li,1994 This volume documents the talks of the International Conference on Complex Analysis 1992 Sessions focused on the areas of complex dynamical systems the theory of value distribution the quasi conformal mappings and the geometric theory of functions

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