



# Quantum Calculus

**Tobias Bleicker**



## **Quantum Calculus:**

**Quantum Calculus** Victor Kac, Pokman Cheung, 2012-12-06 Simply put quantum calculus is ordinary calculus without taking limits This undergraduate text develops two types of quantum calculi the  $q$  calculus and the  $h$  calculus As this book develops quantum calculus along the lines of traditional calculus the reader discovers with a remarkable inevitability many important notions and results of classical mathematics This book is written at the level of a first course in calculus and linear algebra and is aimed at undergraduate and beginning graduate students in mathematics computer science and physics It is based on lectures and seminars given by MIT Professor Kac over the last few years at MIT Quantum Variational Calculus Agnieszka B. Malinowska, Delfim F.M. Torres, 2013-11-29 This Brief puts together two subjects quantum and variational calculi by considering variational problems involving Hahn quantum operators The main advantage of its results is that they are able to deal with nondifferentiable even discontinuous functions which are important in applications Possible applications in economics are discussed Economists model time as continuous or discrete Although individual economic decisions are generally made at discrete time intervals they may well be less than perfectly synchronized in ways discrete models postulate On the other hand the usual assumption that economic activity takes place continuously is nothing else than a convenient abstraction that in many applications is far from reality The Hahn quantum calculus helps to bridge the gap between the two families of models continuous and discrete Quantum Variational Calculus is self contained and unified in presentation It provides an opportunity for an introduction to the quantum calculus of variations for experienced researchers but may be used as an advanced textbook by graduate students and even ambitious undergraduates as well The explanations in the book are detailed to capture the interest of the curious reader and complete to provide the necessary background material needed to go further into the subject and explore the rich research literature motivating further research activity in the area

**Quantum Calculus and Functional Analysis with Applications** Bipan Hazarika, Sanket Tikare, Mehmet Dik, Dimplekumar Chalishajar, 2025-11-21 Quantum Calculus and Functional Analysis with Applications presents advanced research on quantum calculus functional analysis and their interdisciplinary applications It focuses on solving complex challenges in areas such as quantum transport carbon nanotubes approximation theory optimal control models and renewable natural resources by providing cutting edge developments in these specialised fields Based on original research it offers new insights into topics such as neutrosophic normed spaces probabilistic normed spaces quantum sequence spaces and  $q$  calculus applications in functional analysis for innovative applications across fields as diverse as energy environmental science and bioengineering This book Discusses quantum calculus fractional calculus functional analysis quantization of electromagnetic fields Caputo Fabrizio fractional differential equations  $q$  statistical convergence and quantum matrix operators Explores quantum calculus and fractional calculus applied to quantum functional calculus biofuels environmental pollution and optimal control analysis Highlights the role of mathematical methods in addressing challenges in biofuel

production and renewable natural resources making it highly relevant for professionals and researchers in these fields

Covers new research in fixed point theory including methods for proving the existence of superior fixed points and applications to nonlinear equations Includes theoretical foundations and practical applications providing a balanced approach that makes complex concepts accessible while maintaining a focus on cutting edge developments The book is for researchers and scholars of applied mathematics and readers interested in the advancement of Quantum Calculus and Functional Analysis

*Quantum Calculus: New Concepts, Impulsive Ivps And Bvps, Inequalities* Bashir Ahmad, Sotiris K Ntouyas, Jessada Tariboon, 2016-06-07 The main objective of this book is to extend the scope of the  $q$  calculus based on the definition of  $q$  derivative Jackson 1910 to make it applicable to dense domains As a matter of fact Jackson's definition of  $q$  derivative fails to work for impulse points while this situation does not arise for impulsive equations on  $q$  time scales as the domains consist of isolated points covering the case of consecutive points In precise terms we study quantum calculus on finite intervals In the first part we discuss the concepts of  $q_k$  derivative and  $q_k$  integral and establish their basic properties As applications we study initial and boundary value problems of impulsive  $q_k$  difference equations and inclusions equipped with different kinds of boundary conditions We also transform some classical integral inequalities and develop some new integral inequalities for convex functions in the context of  $q_k$  calculus In the second part we develop fractional quantum calculus in relation to a new  $q_k$  shifting operator and establish some existence and  $q_k$  uniqueness results for initial and boundary value problems of impulsive fractional  $q_k$  difference equations

*A Comprehensive Treatment of  $q$ -Calculus* Thomas Ernst, 2012-09-08 To date the theoretical development of  $q$  calculus has rested on a non uniform basis Generally the bulky Gasper Rahman notation was used but the published works on  $q$  calculus looked different depending on where and by whom they were written This confusion of tongues not only complicated the theoretical development but also contributed to  $q$  calculus remaining a neglected mathematical field This book overcomes these problems by introducing a new and interesting notation for  $q$  calculus based on logarithms For instance  $q$  hypergeometric functions are now visually clear and easy to trace back to their hypergeometric parents With this new notation it is also easy to see the connection between  $q$  hypergeometric functions and the  $q$  gamma function something that until now has been overlooked The book covers many topics on  $q$  calculus including special functions combinatorics and  $q$  difference equations Apart from a thorough review of the historical development of  $q$  calculus this book also presents the domains of modern physics for which  $q$  calculus is applicable such as particle physics and supersymmetry to name just a few

*Generalized Quantum Calculus with Applications* Svetlin G. Georgiev, Sanket Tikare, 2025-03-17 *Generalized Quantum Calculus with Applications* is devoted to the qualitative theory of general quantum calculus and its applications to general quantum differential equations and inequalities The book is aimed at upper level undergraduate students and beginning graduate students in a range of interdisciplinary courses including physical sciences and engineering from quantum mechanics to differential equations with pedagogically organized chapters

that each concludes with a section of practical problems Generalized quantum calculus includes a generalization of the  $q$  quantum calculus and the time scale calculus There are many open problems and difficulties in  $q$  quantum calculus and time scale calculus and this book explores how to use the generalized quantum operators to solve difficulties arising in  $q$  quantum calculus and time scale calculus including but not limited to generalized quantum integration generalized quantum chain rules and generalized quantum Taylor formula Since generalized quantum calculus includes the  $q$  quantum and time scale calculus this book can be utilized by a wide audience of researchers and students This text is one of few foundational books on generalized quantum calculus and can be used for future discoveries in the area of integral transforms variational calculus integral equations and inequalities in the language of generalized quantum calculus This book also offers detailed proofs exercises and examples to aid instructors researchers and users in their studies Explores cutting edge research trends in quantum calculus Provides practical information and techniques for building fundamental knowledge and applying contemporary quantum calculus in upper undergraduate and graduate level studies Serves as a front line book for budding researchers and experts of mathematics along with students from several interdisciplinary fields Offers additional resources such as detailed proofs exercises and examples to aid instructors and students in their work

### **General Quantum**

**Variational Calculus** Svetlin G. Georgiev, Khaled Zennir, 2024-12-19 Quantum calculus is the modern name for the investigation of calculus without limits Quantum calculus or  $q$  calculus began with F H Jackson in the early twentieth century but this kind of calculus had already been worked out by renowned mathematicians Euler and Jacobi Lately quantum calculus has aroused a great amount of interest due to the high demand of mathematics that model quantum computing The  $q$  calculus appeared as a connection between mathematics and physics It has a lot of applications in different mathematical areas such as number theory combinatorics orthogonal polynomials basic hypergeometric functions and other quantum theory sciences mechanics and the theory of relativity Recently the concept of general quantum difference operators that generalize quantum calculus has been defined General Quantum Variational Calculus is specially designed for those who wish to understand this important mathematical concept as the text encompasses recent developments of general quantum variational calculus The material is presented in a highly readable mathematically solid format Many practical problems are illustrated displaying a wide variety of solution techniques This book is addressed to a wide audience of specialists such as mathematicians physicists engineers and biologists It can be used as a textbook at the graduate level and as a reference for several disciplines

### **General Quantum Numerical Analysis**

Svetlin G. Georgiev, Khaled Zennir, 2024-05-03 This book is focused on the qualitative theory of general quantum calculus the modern name for the investigation of calculus without limits It centers on designing analysing and applying computational techniques for general quantum differential equations The quantum calculus or  $q$  calculus began with F H Jackson in the early twentieth century but this kind of calculus had already been worked out by Euler and Jacobi Recently it has aroused interest due to high demand of mathematics that

models quantum computing and the connection between mathematics and physics Quantum calculus has many applications in different mathematical areas such as number theory combinatorics orthogonal polynomials basic hyper geometric functions and other sciences such as quantum theory mechanics and the theory of relativity The authors summarize the most recent contributions in this area General Quantum Numerical Analysis is intended for senior undergraduate students and beginning graduate students of engineering and science courses The twelve chapters in this book are pedagogically organized each concluding with a section of practical problems

#### **Applications of q-Calculus in Operator Theory** Ali

Aral, Vijay Gupta, Ravi P. Agarwal, 2013-05-09 The approximation of functions by linear positive operators is an important research topic in general mathematics and it also provides powerful tools to application areas such as computer aided geometric design numerical analysis and solutions of differential equations q Calculus is a generalization of many subjects such as hypergeometric series complex analysis and particle physics This monograph is an introduction to combining approximation theory and q Calculus with applications by using well known operators The presentation is systematic and the authors include a brief summary of the notations and basic definitions of q calculus before delving into more advanced material The many applications of q calculus in the theory of approximation especially on various operators which includes convergence of operators to functions in real and complex domain forms the gist of the book This book is suitable for researchers and students in mathematics physics and engineering and for professionals who would enjoy exploring the host of mathematical techniques and ideas that are collected and discussed in the book

#### **Advanced Technologies of Quantum Key Distribution** Sergiy Gnatyuk, 2018-05-30

This book explores both the state of the art and the latest developments in QKD It describes the fundamental concepts and practical aspects of QKD from a viewpoint of information security and quantum channel efficiency improvement The purpose of this book is to extend and update the knowledge of the readers in the dynamically changing field of QKD The authors attempt to present in detail their results of scientific research which is divided into two sections Modern QKD Technologies and Quantum Channel Construction It will be useful for researchers engineers graduates and doctoral students working in quantum cryptography and information security related areas

#### Recent Advances in Constructive Approximation Theory Vijay Gupta, Themistocles M. Rassias, P. N. Agrawal, Ana

Maria Acu, 2018-07-06 This book presents an in depth study on advances in constructive approximation theory with recent problems on linear positive operators State of the art research in constructive approximation is treated with extensions to approximation results on linear positive operators in a post quantum and bivariate setting Methods techniques and problems in approximation theory are demonstrated with applications to optimization physics and biology Graduate students research scientists and engineers working in mathematics physics and industry will broaden their understanding of operators essential to pure and applied mathematics Topics discussed include discrete operators quantitative estimates post quantum calculus integral operators univariate Gruss type inequalities for positive linear operators bivariate operators of discrete and integral

type convergence of GBS operators

**Analytical and Numerical Methods for Differential Equations and Applications** Jesus Martin-Vaquero, Feliz Minhós, Juan L. G. Guirao, Bruce Alan Wade, 2021-10-29

**Progress in Approximation Theory and Applicable Complex Analysis** Narendra Kumar Govil, Ram Mohapatra, Mohammed A. Qazi, Gerhard Schmeisser, 2017-04-03

Current and historical research methods in approximation theory are presented in this book beginning with the 1800s and following the evolution of approximation theory via the refinement and extension of classical methods and ending with recent techniques and methodologies Graduate students postdocs and researchers in mathematics specifically those working in the theory of functions approximation theory geometric function theory and optimization will find new insights as well as a guide to advanced topics The chapters in this book are grouped into four themes the first polynomials Chapters 1 8 includes inequalities for polynomials and rational functions orthogonal polynomials and location of zeros The second inequalities and extremal problems are discussed in Chapters 9 13 The third approximation of functions involves the approximants being polynomials rational functions and other types of functions and are covered in Chapters 14 19 The last theme quadrature cubature and applications comprises the final three chapters and includes an article coauthored by Rahman This volume serves as a memorial volume to commemorate the distinguished career of Qazi Ibadur Rahman 1934 2013 of the Universit de Montr al Rahman was considered by his peers as one of the prominent experts in analytic theory of polynomials and entire functions The novelty of his work lies in his profound abilities and skills in applying techniques from other areas of mathematics such as optimization theory and variational principles to obtain final answers to countless open problems

**Computation, Cryptography, and Network Security** Nicholas J. Daras, Michael Th. Rassias, 2015-09-16

Analysis assessment and data management are core competencies for operation research analysts This volume addresses a number of issues and developed methods for improving those skills It is an outgrowth of a conference held in April 2013 at the Hellenic Military Academy and brings together a broad variety of mathematical methods and theories with several applications It discusses directions and pursuits of scientists that pertain to engineering sciences It is also presents the theoretical background required for algorithms and techniques applied to a large variety of concrete problems A number of open questions as well as new future areas are also highlighted This book will appeal to operations research analysts engineers community decision makers academics the military community practitioners sharing the current state of the art and analysts from coalition partners Topics covered include Operations Research Games and Control Theory Computational Number Theory and Information Security Scientific Computing and Applications Statistical Modeling and Applications Systems of Monitoring and Spatial Analysis

**Advances in Mathematical and Computational Sciences** Manoj Kumar Patel, Triloki Nath, Ram Kishor Pandey, Diwakar Shukla, 2024-11-04

This volume documents the contributions presented at The ICRTMPCS II International Conference on Advances in Mathematical and Computational Sciences Entries focus on modern trends and techniques in branches of pure and applied mathematics statistics and computer science

Highlighting applications in coding theory cryptography graph theory fuzzy theory variance analysis data analysis and sampling theory

**Essential Quantum Calculus** N.B. Singh, Essential Quantum Calculus is a concise and accessible guide that demystifies quantum calculus offering readers a fundamental understanding of its principles This book provides a clear introduction to the mathematical concepts essential for grasping quantum mechanics making it an indispensable resource for students and enthusiasts seeking a solid foundation in the intricate world of quantum physics

**A Handbook of Calculus in Quantum Mechanics** N.B. Singh, A Handbook of Calculus in Quantum Mechanics is a comprehensive introductory guide designed specifically for absolute beginners with little to no mathematical background in quantum mechanics This concise yet thorough handbook navigates readers through the fundamental concepts of calculus within the context of quantum mechanics offering clear explanations and practical examples to facilitate understanding From essential differential and integral calculus formulas to their application in solving problems in quantum mechanics this book provides a solid foundation for readers to grasp the mathematical tools essential for exploring the intriguing world of quantum phenomena Whether you re a student researcher or enthusiast this accessible handbook equips you with the necessary knowledge to embark on your quantum journey with confidence and clarity

**The Evolution of Logic** Henry Horace Williams,1925

*SIAM Journal on Computing* Society for Industrial and Applied Mathematics,2004 Contains research articles in the application of mathematics to the problems of computer science and the nonnumerical aspects of computing

**Report on Radiation and the Quantum-theory** James Jeans,1924 Presents the latest information on health promotion prevention treatment for sleep sleep disorders offering strategies for promoting normal sleep coping with disordered sleep supporting sleep in healthcare settings

## Decoding **Quantum Calculus**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Quantum Calculus**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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