

Q

The Power of q

This unique book explores the world of q , known technically as basic hypergeometric series, and represents the author's personal and life-long study—inspired by Ramanujan—of aspects of this broad topic. While the level of mathematical sophistication is graduated, the book is designed to appeal to advanced undergraduates as well as researchers in the field. The principal aims are to demonstrate the power of the methods and the beauty of the results. The book contains novel proofs of many results in the theory of partitions and the theory of representations, as well as associated identities. Though not specifically designed as a textbook, parts of it may be presented in course work; it has many suitable exercises. After an introductory chapter, the power of q -series is demonstrated with proofs of Lagrange's four-squares theorem and Gauss's two-squares theorem. Attention then turns to partitions and Ramanujan's partition congruences. Several proofs of these are given throughout the book. Many chapters are devoted to related and other associated topics. One highlight is a simple proof of an identity of Jacobi with application to string theory. On the way, we come across the Rogers–Ramanujan identities and the Rogers–Ramanujan continued fraction, the famous “forty identities” of Ramanujan, and the representation results of Jacobi, Dirichlet and Lorenz, not to mention many other interesting and beautiful results. We also meet a challenge of D.H. Lehmer to give a formula for the number of partitions of a number into four squares, prove a “mysterious” partition theorem of H. Farkas and prove a conjecture of R.Wm. Gosper “which even Erdős couldn't do.” The book concludes with a look at Ramanujan's remarkable tau function.

Q 12:33-34

This eighth volume in the Documenta Q series is concerned with the reconstruction of the Q text behind Luke 12:33-34 par. Matt 6:19-21. Storing up Treasures in Heaven takes up important wisdom themes such as the proper disposition of wealth, the importance of prioritizing one's thoughts and concerns, and the means to gaining eternal - not temporal - rewards. Parallels are found in literature as early and diverse as the Gospels of Mark, John, and Thomas, the Epistle of James, and Justin's Apology. The International Q Project's presentation of the critical text of Q 12:33-34, together with the exhaustive history of research on which it is based, will considerably enhance research in the Sayings Gospel Q, the historical Jesus, and the ethical concerns of early Jesus movements.

Interval Valued Q-Fuzzy Multiparameterized Soft Set and its Application

Molodtsov's soft set theory is a newly emerging mathematical tool for handling uncertainty. However, classical multiparameterized soft sets are not appropriate for imprecise and Q-fuzzy parameters.

A Comprehensive Treatment of q -Calculus

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.

Neutrosophic Q-fuzzy left N-subgroups of a Near-ring

In this paper, the notion of neutrosophic Q- fuzzy left N-subgroups is introduced in a near ring and investigated some related properties. Characterization of neutrosophic Q- fuzzy left N-subgroups with respect to T-norm and S-norm are given. Few homomorphic image and its pre-image on neutrosophic Q- fuzzy are obtained.

Q Fever

Q fever is a zoonotic infectious disease caused by *Coxiella burnetii*, which infects a broad range of hosts. This volume presents critical reviews of the biological aspects of *C. burnetii*. Topics covered include *C. burnetii*'s place in the microbial world through a comparison with other microorganisms that are phylogenetically related or share phenotypic traits; intrinsic properties of *Coxiella* with respect to infectivity, virulence, and pathogenicity; past and current methods for the isolation, amplification, and purification of *C. Burnetii*; obligate acidophily; metabolic capabilities, with emphasis on intermediary metabolism, macromolecular synthesis, and protein export; and human immune responses to bacterial components during acute and chronic infection by *C. Burnetii*. Other fascinating topics about *C. Burnetii* include antigens, virulence factors, and biological response modifiers; ultrastructure; genetics; cloning and expression; and *C. burnetii* in the U.S.S.R. and China. Epidemiologists, molecular biologists, microbiologists, and other researchers interested in Q fever and *C. burnetii* should consider this book an essential reference resource.

Generalized Q-Neutrosophic Soft Expert Set for Decision under Uncertainty

Neutrosophic triplet structure yields a symmetric property of truth membership on the left, indeterminacy membership in the centre and false membership on the right, as do points of object, centre and image of reflection. As an extension of a neutrosophic set, the Q-neutrosophic set was introduced to handle two-dimensional uncertain and inconsistent situations. We extend the soft expert set to generalized Q-neutrosophic soft expert set by incorporating the idea of soft expert set to the concept of Q-neutrosophic set and attaching the parameter of fuzzy set while defining a Q-neutrosophic soft expert set. This pattern carries the benefits of Q-neutrosophic sets and soft sets, enabling decision makers to recognize the views of specialists with no requirement for extra lumbering tasks, thus making it exceedingly reasonable for use in decision-making issues that include imprecise, indeterminate and inconsistent two-dimensional data. Some essential operations namely subset, equal, complement, union, intersection, AND and OR operations and additionally several properties relating to the notion of generalized Q-neutrosophic soft expert set are characterized. Finally, an algorithm on generalized Q-neutrosophic soft expert set is proposed and applied to a real-life example to show the efficiency of this notion in handling such problems.

The Geomagnetic Index Q - Its Persistence, Predictability, and Other Pertinent Properties

Every child's potential is regularly determined by a standardized measurement: their quotient (Q). Score high enough, and attend a top tier school with a golden future. Score too low, and it's off to a federal boarding school with limited prospects afterwards. The purpose? An improved society where education costs drop, teachers focus on the more promising students, and parents are happy. Elena Fairchild is a teacher at one of the state's elite schools. When her nine-year-old daughter bombs a monthly test and her Q score drops to a disastrously low level, she is immediately forced to leave her top school for a federal institution hundreds of

miles away. As a teacher, Elena thought she understood the tiered educational system, but as a mother whose child is now gone, Elena's perspective is changed forever. She just wants her daughter back. And she will do the unthinkable to make it happen. (4e de couverture)

Master Class

Papers presented at the 49th Colloquium Biblicum Lovaniense held at the Faculty of Theology of the Katholieke Universiteit Leuven, 25-27 July, 2000.

The Sayings Source Q and the Historical Jesus

"Report of the Dominion fishery commission on the fisheries of the province of Ontario, 1893"

Report on Canadian Archives and on the System of Keeping Public Records

Trial for fabricating and falsifying the balance sheet for the year, which was issued to the stockholders of the bank.

Debates

Discover the remarkable teachings of one of the most profound lost Gospels of the Bible, the lost Gospel of Q, with renowned Christian historian authors Marcus Borg and Thomas Moore. The image of the historical Jesus takes form in the words of the earliest Gospel of Q. The Lost Gospel Q represents the very first Gospel, older than the traditional Gospels and written by Jesus' contemporaries. It preserves Jesus' original words, including: · The Sermon on the Mount · Beatitudes · The Lord's Prayer · Parables · And his counsel for a compassionate life The original of the Gospel Q was lost for 2,000 years, but for the past two centuries, historians and theologians have been digging through the many layers of the New Testament to uncover one of the most remarkable Gospels of the Bible.

The Times Parliamentary Debates

A field is a fundamental algebraic structure that finds extensive applications in algebra and various mathematical domains. On the other hand, a Q-complex neutrosophic soft set (Q-CNSS) is a unique hybrid model that combines the characteristics of soft sets and neutrosophic sets within a complex number framework. It utilizes the effectiveness of Q-set as a powerful tool in the domain of this particular model. In this article, we leverage this model to define fields under uncertainty. We present the Q-complex neutrosophic soft field (Q-CNSF) and examine the unique algebraic properties associated with this model. Additionally, we explore the relationships between Q-CNSF and Q-neutrosophic soft field (Q-NSF). Furthermore, we define the Cartesian product of QCNSFs and delve into the relevant properties. Through this comprehensive exploration, our aim is to enhance the understanding of Q-CNSFs and their properties, ultimately contributing to the field of algebraic analysis and its practical applications in handling uncertainty and vagueness.

Handbook of Mathematics for Engineers and Engineering Students

"Papers presented to J. E. Littlewood on his 80th birthday" issued as 3d ser., v. 14 A, 1965.

The Collected Mathematical Papers of Arthur Cayley ...

Municipal Engineering

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