



A Comprehensive Treatment of q-Calculus

By Thomas Ernst

[Download now](#)

[Read Online](#) 

A Comprehensive Treatment of q-Calculus By Thomas Ernst

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.?

 [Download A Comprehensive Treatment of q-Calculus ...pdf](#)

 [Read Online A Comprehensive Treatment of q-Calculus ...pdf](#)

A Comprehensive Treatment of q-Calculus

By Thomas Ernst

A Comprehensive Treatment of q-Calculus By Thomas Ernst

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.?

A Comprehensive Treatment of q-Calculus By Thomas Ernst Bibliography

- Sales Rank: #6018784 in Books
- Published on: 2012-09-14
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x 6.25" w x 1.25" l, 1.60 pounds
- Binding: Hardcover
- 492 pages

 [Download A Comprehensive Treatment of q-Calculus ...pdf](#)

 [Read Online A Comprehensive Treatment of q-Calculus ...pdf](#)

Download and Read Free Online A Comprehensive Treatment of q-Calculus By Thomas Ernst

Editorial Review

From the Back Cover

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. Beyond a thorough review of the historical development of q -calculus, it also presents the domains of modern physics for which q -calculus is applicable, such as particle physics and supersymmetry, to name just a few.

Users Review

From reader reviews:

Geraldine Dube:

Do you have favorite book? Should you have, what is your favorite's book? Book is very important thing for us to understand everything in the world. Each publication has different aim or maybe goal; it means that reserve has different type. Some people sense enjoy to spend their the perfect time to read a book. These are reading whatever they get because their hobby is usually reading a book. Think about the person who don't like studying a book? Sometime, man or woman feel need book when they found difficult problem or even exercise. Well, probably you will require this A Comprehensive Treatment of q-Calculus.

Terry Matlock:

Precisely why? Because this A Comprehensive Treatment of q-Calculus is an unordinary book that the inside of the book waiting for you to snap that but latter it will zap you with the secret the item inside. Reading this book beside it was fantastic author who write the book in such incredible way makes the content inside easier to understand, entertaining approach but still convey the meaning entirely. So , it is good for you because of not hesitating having this nowadays or you going to regret it. This phenomenal book will give you a lot of rewards than the other book have such as help improving your ability and your critical thinking means. So , still want to hold off having that book? If I had been you I will go to the guide store hurriedly.

Cheri Whaley:

Many people spending their time frame by playing outside along with friends, fun activity using family or just watching TV all day long. You can have new activity to pay your whole day by looking at a book. Ugh, do you think reading a book can definitely hard because you have to bring the book everywhere? It ok you can have the e-book, bringing everywhere you want in your Smart phone. Like A Comprehensive Treatment of q-Calculus which is keeping the e-book version. So , why not try out this book? Let's notice.

Clarence Ross:

A lot of book has printed but it is unique. You can get it by net on social media. You can choose the top book for you, science, comic, novel, or whatever simply by searching from it. It is called of book A Comprehensive Treatment of q-Calculus. You can contribute your knowledge by it. Without departing the printed book, it may add your knowledge and make an individual happier to read. It is most important that, you must aware about reserve. It can bring you from one destination for a other place.

Download and Read Online A Comprehensive Treatment of q-Calculus By Thomas Ernst #SCZE0OKHJ3I

Read A Comprehensive Treatment of q-Calculus By Thomas Ernst for online ebook

A Comprehensive Treatment of q-Calculus By Thomas Ernst Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read A Comprehensive Treatment of q-Calculus By Thomas Ernst books to read online.

Online A Comprehensive Treatment of q-Calculus By Thomas Ernst ebook PDF download

A Comprehensive Treatment of q-Calculus By Thomas Ernst Doc

A Comprehensive Treatment of q-Calculus By Thomas Ernst MobiPocket

A Comprehensive Treatment of q-Calculus By Thomas Ernst EPub

SCZE0OKHJ3I: A Comprehensive Treatment of q-Calculus By Thomas Ernst