Hypergeometric Summation: An Algorithmic Approach to Summation and Special Function Identities (Universitext)

Wolfram Koepf

Hypergeometric Summation: An Algorithmic Approach to Summation and Special Function Identities (Universitext)

Wolfram Koepf

Hypergeometric Summation: An Algorithmic Approach to Summation and Special Function Identities (Universitext) Wolfram Koepf

Modern algorithmic techniques for summation, most of which were introduced in the 1990s, are developed here and carefully implemented in the computer algebra system Maple™.

The algorithms of Fasenmyer, Gosper, Zeilberger, Petkovšek and van Hoeij for hypergeometric summation and recurrence equations, efficient multivariate summation as well as q-analogues of the above algorithms are covered. Similar algorithms concerning differential equations are considered. An equivalent theory of hyperexponential integration due to Almkvist and Zeilberger completes the book.

The combination of these results gives orthogonal polynomials and (hypergeometric and q-hypergeometric) special functions a solid algorithmic foundation. Hence, many examples from this very active field are given.

The materials covered are suitable for an introductory course on algorithmic summation and will appeal to students and researchers alike.

⬇ **Download** Hypergeometric Summation: An Algorithmic Approach ...pdf

📄 **Read Online** Hypergeometric Summation: An Algorithmic Approac ...pdf

Download and Read Free Online Hypergeometric Summation: An Algorithmic Approach to Summation and Special Function Identities (Universitext) Wolfram Koepf

---

From reader reviews:

Carla Smith:

Do you certainly one of people who can't read pleasurable if the sentence chained in the straightway, hold on guys that aren't like that. This Hypergeometric Summation: An Algorithmic Approach to Summation and Special Function Identities (Universitext) book is readable simply by you who hate the straight word style. You will find the data here are arrange for enjoyable looking at experience without leaving even decrease the knowledge that want to deliver to you. The writer of Hypergeometric Summation: An Algorithmic Approach to Summation and Special Function Identities (Universitext) content conveys thinking easily to understand by lots of people. The printed and e-book are not different in the content material but it just different in the form of it. So , do you nonetheless thinking Hypergeometric Summation: An Algorithmic Approach to Summation and Special Function Identities (Universitext) is not loveable to be your top record reading book?

Karen Keegan:

Nowadays reading books are more than want or need but also get a life style. This reading habit give you lot of advantages. The huge benefits you got of course the knowledge even the information inside the book which improve your knowledge and information. The info you get based on what kind of guide you read, if you want have more knowledge just go with education books but if you want truly feel happy read one along with theme for entertaining for example comic or novel. The Hypergeometric Summation: An Algorithmic Approach to Summation and Special Function Identities (Universitext) is kind of publication which is giving the reader capricious experience.

Anna Sanders:

Reading a book to become new life style in this yr; every people loves to go through a book. When you go through a book you can get a great deal of benefit. When you read publications, you can improve your knowledge, mainly because book has a lot of information in it. The information that you will get depend on what types of book that you have read. In order to get information about your analysis, you can read education books, but if you act like you want to entertain yourself look for a fiction books, such us novel, comics, along with soon. The Hypergeometric Summation: An Algorithmic Approach to Summation and Special Function Identities (Universitext) will give you a new experience in reading through a book.

Julie Berkey:

A lot of reserve has printed but it is unique. You can get it by internet on social media. You can choose the best book for you, science, witty, novel, or whatever by simply searching from it. It is known as of book Hypergeometric Summation: An Algorithmic Approach to Summation and Special Function Identities (Universitext). You can include your knowledge by it. Without leaving the printed book, it could add your knowledge and make a person happier to read. It is most crucial that, you must aware about publication. It can bring you from one destination for a other place.

Download and Read Online Hypergeometric Summation: An Algorithmic Approach to Summation and Special Function Identities (Universitext) Wolfram Koepf #EP0ACWMNO65

Read Hypergeometric Summation: An Algorithmic Approach to Summation and Special Function Identities (Universitext) by Wolfram Koepf for online ebook

Hypergeometric Summation: An Algorithmic Approach to Summation and Special Function Identities (Universitext) by Wolfram Koepf 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 Hypergeometric Summation: An Algorithmic Approach to Summation and Special Function Identities (Universitext) by Wolfram Koepf books to read online.

Online Hypergeometric Summation: An Algorithmic Approach to Summation and Special Function Identities (Universitext) by Wolfram Koepf ebook PDF download

Hypergeometric Summation: An Algorithmic Approach to Summation and Special Function Identities (Universitext) by Wolfram Koepf Doc

Hypergeometric Summation: An Algorithmic Approach to Summation and Special Function Identities (Universitext) by Wolfram Koepf Mobipocket

Hypergeometric Summation: An Algorithmic Approach to Summation and Special Function Identities (Universitext) by Wolfram Koepf EPub