



 Get Print Book

Special Functions and Orthogonal Polynomials (Cambridge Studies in Advanced Mathematics)

By Richard Beals, Roderick Wong



Download



Read Online

Special Functions and Orthogonal Polynomials (Cambridge Studies in Advanced Mathematics) By Richard Beals, Roderick Wong

The subject of special functions is often presented as a collection of disparate results, rarely organized in a coherent way. This book emphasizes general principles that unify and demarcate the subjects of study. The authors' main goals are to provide clear motivation, efficient proofs, and original references for all of the principal results. The book covers standard material, but also much more. It shows how much of the subject can be traced back to two equations - the hypergeometric equation and confluent hypergeometric equation - and it details the ways in which these equations are canonical and special. There is extended coverage of orthogonal polynomials, including connections to approximation theory, continued fractions, and the moment problem, as well as an introduction to new asymptotic methods. There are also chapters on Meijer G-functions and elliptic functions. The final chapter introduces Painlevé transcendents, which have been termed the 'special functions of the twenty-first century'.



[Download Special Functions and Orthogonal Polynomials \(Camb ...pdf](#)



[Read Online Special Functions and Orthogonal Polynomials \(Ca ...pdf](#)

Special Functions and Orthogonal Polynomials (Cambridge Studies in Advanced Mathematics)

By Richard Beals, Roderick Wong

Special Functions and Orthogonal Polynomials (Cambridge Studies in Advanced Mathematics) By Richard Beals, Roderick Wong

The subject of special functions is often presented as a collection of disparate results, rarely organized in a coherent way. This book emphasizes general principles that unify and demarcate the subjects of study. The authors' main goals are to provide clear motivation, efficient proofs, and original references for all of the principal results. The book covers standard material, but also much more. It shows how much of the subject can be traced back to two equations - the hypergeometric equation and confluent hypergeometric equation - and it details the ways in which these equations are canonical and special. There is extended coverage of orthogonal polynomials, including connections to approximation theory, continued fractions, and the moment problem, as well as an introduction to new asymptotic methods. There are also chapters on Meijer G-functions and elliptic functions. The final chapter introduces Painlevé transcendents, which have been termed the 'special functions of the twenty-first century'.

Special Functions and Orthogonal Polynomials (Cambridge Studies in Advanced Mathematics) By Richard Beals, Roderick Wong **Bibliography**

- Sales Rank: #1396587 in Books
- Published on: 2016-05-17
- Original language: English
- Number of items: 1
- Dimensions: 8.98" h x 1.26" w x 5.98" l, .0 pounds
- Binding: Hardcover
- 488 pages

 [Download Special Functions and Orthogonal Polynomials \(Camb ...pdf](#)

 [Read Online Special Functions and Orthogonal Polynomials \(Ca ...pdf](#)

Download and Read Free Online Special Functions and Orthogonal Polynomials (Cambridge Studies in Advanced Mathematics) By Richard Beals, Roderick Wong

Editorial Review

About the Author

Richard Beals is a former Professor of Mathematics at the University of Chicago and Yale University. He is the author or co-author of books on mathematical analysis, linear operators and inverse scattering theory, and has authored more than 100 research papers in areas including partial differential equations, mathematical economics and mathematical psychology.

Roderick Wong is Chair Professor of Mathematics at the City University of Hong Kong. He is the author of books on asymptotic approximations of integrals and applied analysis. He has published over 140 research papers in areas such as asymptotic analysis, singular perturbation theory and special functions.

Users Review

From reader reviews:

Arnold Grigg:

This book untitled Special Functions and Orthogonal Polynomials (Cambridge Studies in Advanced Mathematics) to be one of several books in which best seller in this year, that is because when you read this publication you can get a lot of benefit into it. You will easily to buy this specific book in the book retail store or you can order it via online. The publisher of this book sells the e-book too. It makes you quicker to read this book, since you can read this book in your Mobile phone. So there is no reason to your account to past this reserve from your list.

Jesus Allgood:

Reading a reserve can be one of a lot of pastime that everyone in the world really likes. Do you like reading book therefore. There are a lot of reasons why people like it. First reading a e-book will give you a lot of new facts. When you read a reserve you will get new information due to the fact book is one of many ways to share the information or perhaps their idea. Second, reading a book will make a person more imaginative. When you looking at a book especially fiction book the author will bring someone to imagine the story how the people do it anything. Third, you are able to share your knowledge to other people. When you read this Special Functions and Orthogonal Polynomials (Cambridge Studies in Advanced Mathematics), you could tells your family, friends and soon about yours book. Your knowledge can inspire the others, make them reading a book.

Ethel Swafford:

Beside this particular Special Functions and Orthogonal Polynomials (Cambridge Studies in Advanced Mathematics) in your phone, it could possibly give you a way to get closer to the new knowledge or details. The information and the knowledge you are going to got here is fresh from your oven so don't become worry if you feel like an older people live in narrow community. It is good thing to have Special Functions and

Orthogonal Polynomials (Cambridge Studies in Advanced Mathematics) because this book offers to your account readable information. Do you often have book but you seldom get what it's about. Oh come on, that wil happen if you have this inside your hand. The Enjoyable arrangement here cannot be questionable, like treasuring beautiful island. Techniques you still want to miss the idea? Find this book along with read it from now!

Ellis Pauling:

A number of people said that they feel fed up when they reading a e-book. They are directly felt it when they get a half areas of the book. You can choose the book Special Functions and Orthogonal Polynomials (Cambridge Studies in Advanced Mathematics) to make your reading is interesting. Your current skill of reading proficiency is developing when you just like reading. Try to choose simple book to make you enjoy to read it and mingle the idea about book and examining especially. It is to be initially opinion for you to like to available a book and examine it. Beside that the guide Special Functions and Orthogonal Polynomials (Cambridge Studies in Advanced Mathematics) can to be your brand-new friend when you're experience alone and confuse using what must you're doing of that time.

Download and Read Online Special Functions and Orthogonal Polynomials (Cambridge Studies in Advanced Mathematics) By Richard Beals, Roderick Wong #M9J4FKP5OSW

Read Special Functions and Orthogonal Polynomials (Cambridge Studies in Advanced Mathematics) By Richard Beals, Roderick Wong for online ebook

Special Functions and Orthogonal Polynomials (Cambridge Studies in Advanced Mathematics) By Richard Beals, Roderick Wong 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 Special Functions and Orthogonal Polynomials (Cambridge Studies in Advanced Mathematics) By Richard Beals, Roderick Wong books to read online.

Online Special Functions and Orthogonal Polynomials (Cambridge Studies in Advanced Mathematics) By Richard Beals, Roderick Wong ebook PDF download

Special Functions and Orthogonal Polynomials (Cambridge Studies in Advanced Mathematics) By Richard Beals, Roderick Wong Doc

Special Functions and Orthogonal Polynomials (Cambridge Studies in Advanced Mathematics) By Richard Beals, Roderick Wong Mobipocket

Special Functions and Orthogonal Polynomials (Cambridge Studies in Advanced Mathematics) By Richard Beals, Roderick Wong EPub