Ramanujan's Lost Notebook: Part I (Pt. 1)

By George E. Andrews, Bruce C. Berndt

Ramanujan's Lost Notebook: Part I (Pt. 1) By George E. Andrews, Bruce C. Berndt

In the library at Trinity College, Cambridge in 1976, George Andrews of Pennsylvania State University discovered a sheaf of pages in the handwriting of Srinivasa Ramanujan. Soon designated as "Ramanujan's Lost Notebook," it contains considerable material on mock theta functions and undoubtedly dates from the last year of Ramanujan's life. In this book, the notebook is presented with additional material and expert commentary.

⬇ Download Ramanujan's Lost Notebook: Part I (Pt. 1) ...pdf

▤ Read Online Ramanujan's Lost Notebook: Part I (Pt. 1) ...pdf

Ramanujan's Lost Notebook: Part I (Pt. 1)

By George E. Andrews, Bruce C. Berndt

Ramanujan's Lost Notebook: Part I (Pt. 1) By George E. Andrews, Bruce C. Berndt

In the library at Trinity College, Cambridge in 1976, George Andrews of Pennsylvania State University discovered a sheaf of pages in the handwriting of Srinivasa Ramanujan. Soon designated as "Ramanujan's Lost Notebook," it contains considerable material on mock theta functions and undoubtedly dates from the last year of Ramanujan's life. In this book, the notebook is presented with additional material and expert commentary.

Ramanujan's Lost Notebook: Part I (Pt. 1) By George E. Andrews, Bruce C. Berndt Bibliography

- Rank: #2470367 in Books
- Published on: 2005-05-06
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x 1.00" w x 6.14" l, 1.68 pounds
- Binding: Hardcover
- 438 pages

Download and Read Free Online Ramanujan's Lost Notebook: Part I (Pt. 1) By George E. Andrews, Bruce C. Berndt

Editorial Review

Review

From the reviews:

"The 'lost notebook' was in fact a 138-page manuscript found in materials from the estate of G.N. Watson. The manuscript, written in 'Ramanujan's distinctive handwriting', contained over 600 formulas. The authors have taken these results, provided proofs, placed them in the context of contemporary mathematics, and organized them accordingly … This book is for the true fans of ... Ramanujan (Ramanuphiles?). If you enjoyed the original Ramanujan's Notebook series, then it's hard to pass this up." *(Donald L. Vestal, MathDL-online, October 2006)*

"The present work is the first of an estimated four volumes devoted to all of the claims made by Ramanujan … . The mathematics community owes a huge debt of gratitude to Andrews and Berndt for undertaking the monumental task of producing a coherent presentation along with complete proofs of the … mathematical thoughts of Ramanujan during the last year of his life. … Practitioners of q-series and other mathematicians interested in the work of Ramanujan, will delight in studying this book … ." (Andrew V. Sills, Mathematical Reviews, Issue 2005 m)

From the Back Cover

This volume is the first of approximately four volumes devoted to providing statements, proofs, and discussions of all the claims made by Srinivasa Ramanujan in his lost notebook and all his other manuscripts and letters published with the lost notebook. In addition to the lost notebook, this publication contains copies of unpublished manuscripts in the Oxford library, in particular, his famous unpublished manuscript on the partition and tau-functions; fragments of both published and unpublished papers; miscellaneous sheets; and Ramanujan's letters to G. H. Hardy, written from nursing homes during Ramanujan's final two years in England. This volume contains accounts of 442 entries (counting multiplicities) made by Ramanujan in the aforementioned publication. The present authors have organized these claims into eighteen chapters, containing anywhere from two entries in Chapter 13 to sixty-one entries in Chapter 17.

Most of the results contained in Ramanujan's Lost Notebook fall under the purview of q-series. These include mock theta functions, theta functions, partial theta function expansions, false theta functions, identities connected with the Rogers-Fine identity, several results in the theory of partitions, Eisenstein series, modular equations, the Rogers-Ramanujan continued fraction, other q-continued fractions, asymptotic expansions of q-series and q-continued fractions, integrals of theta functions, integrals of q-products, and incomplete elliptic integrals. Other continued fractions, other integrals, infinite series identities, Dirichlet series, approximations, arithmetic functions, numerical calculations, diophantine equations, and elementary mathematics are some of the further topics examined by Ramanujan in his lost notebook.

Users Review

From reader reviews:

James Mendoza:

Information is provisions for anyone to get better life, information presently can get by anyone in everywhere. The information can be a know-how or any news even a concern. What people must be consider while those information which is within the former life are difficult to be find than now's taking seriously which one is suitable to believe or which one the actual resource are convinced. If you have the unstable resource then you obtain it as your main information it will have huge disadvantage for you. All those possibilities will not happen in you if you take Ramanujan's Lost Notebook: Part I (Pt. 1) as your daily resource information.

Gail Cote:

Spent a free time for you to be fun activity to do! A lot of people spent their spare time with their family, or their very own friends. Usually they doing activity like watching television, gonna beach, or picnic inside park. They actually doing same task every week. Do you feel it? Do you need to something different to fill your personal free time/ holiday? Could be reading a book may be option to fill your free time/ holiday. The first thing that you'll ask may be what kinds of guide that you should read. If you want to attempt look for book, may be the reserve untitled Ramanujan's Lost Notebook: Part I (Pt. 1) can be fine book to read. May be it may be best activity to you.

Matthew Seifert:

This Ramanujan's Lost Notebook: Part I (Pt. 1) is fresh way for you who has curiosity to look for some information mainly because it relief your hunger details. Getting deeper you upon it getting knowledge more you know or else you who still having small amount of digest in reading this Ramanujan's Lost Notebook: Part I (Pt. 1) can be the light food for you because the information inside this specific book is easy to get simply by anyone. These books produce itself in the form and that is reachable by anyone, yeah I mean in the e-book type. People who think that in guide form make them feel sleepy even dizzy this reserve is the answer. So you cannot find any in reading a e-book especially this one. You can find what you are looking for. It should be here for you. So , don't miss the idea! Just read this e-book type for your better life and knowledge.

Lorene Williamson:

What is your hobby? Have you heard in which question when you got scholars? We believe that that problem was given by teacher on their students. Many kinds of hobby, Everyone has different hobby. And also you know that little person including reading or as reading become their hobby. You should know that reading is very important along with book as to be the issue. Book is important thing to include you knowledge, except your teacher or lecturer. You see good news or update with regards to something by book. Many kinds of books that can you go onto be your object. One of them is this Ramanujan's Lost Notebook: Part I (Pt. 1).

Download and Read Online Ramanujan's Lost Notebook: Part I (Pt. 1) By George E. Andrews, Bruce C. Berndt #GNBH2UMCITX

Read Ramanujan's Lost Notebook: Part I (Pt. 1) By George E. Andrews, Bruce C. Berndt for online ebook

Ramanujan's Lost Notebook: Part I (Pt. 1) By George E. Andrews, Bruce C. Berndt 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 Ramanujan's Lost Notebook: Part I (Pt. 1) By George E. Andrews, Bruce C. Berndt books to read online.

Online Ramanujan's Lost Notebook: Part I (Pt. 1) By George E. Andrews, Bruce C. Berndt ebook PDF download

Ramanujan's Lost Notebook: Part I (Pt. 1) By George E. Andrews, Bruce C. Berndt Doc

Ramanujan's Lost Notebook: Part I (Pt. 1) By George E. Andrews, Bruce C. Berndt Mobipocket

Ramanujan's Lost Notebook: Part I (Pt. 1) By George E. Andrews, Bruce C. Berndt EPub