

Springer

1st  
edition1st ed. 2018, XII, 430 p. 3  
illus., 1 illus. in color.**Printed book**

Hardcover

**Printed book**

Hardcover

ISBN 978-3-319-77832-7

£ 89,99 | CHF 118,00 | 99,99 € |  
109,99 € (A) | 106,99 € (D)

Available

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Science (SC)

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ISBN 978-3-030-08550-6

**Mathematics : Special Functions**

Andrews, George E., Berndt, Bruce C.

# Ramanujan's Lost Notebook

**Part V**

- **Fifth and final volume examining some of Ramanujan's deepest work in the last year of his life**
- **Proves mock theta conjectures first introduced in Ramanujan's famous Last Letter**
- **Features Ramanujan's Euler products and several continued fractions**

In the spring of 1976, George Andrews of Pennsylvania State University visited the library at Trinity College, Cambridge, to examine the papers of the late G.N. Watson. Among these papers, Andrews discovered a sheaf of 138 pages in the handwriting of Srinivasa Ramanujan. This manuscript was soon designated, "Ramanujan's lost notebook." Its discovery has frequently been deemed the mathematical equivalent of finding Beethoven's tenth symphony. This fifth and final installment of the authors' examination of Ramanujan's lost notebook focuses on the mock theta functions first introduced in Ramanujan's famous Last Letter. This volume proves all of the assertions about mock theta functions in the lost notebook and in the Last Letter, particularly the celebrated mock theta conjectures. Other topics feature Ramanujan's many elegant Euler products and the remaining entries on continued fractions not discussed in the preceding volumes. Review from the second volume: "Fans of Ramanujan's mathematics are sure to be delighted by this book. While some of the content is taken directly from published papers, most chapters contain new material and some previously published proofs have been improved. Many entries are just begging for further study and will undoubtedly be inspiring research for decades to come. The next installment in this series is eagerly awaited." - MathSciNet Review from the first volume: "Andrews and Berndt are to be congratulated on the job they are doing. This is the first step...on the way to an understanding of the work of the genius Ramanujan. It should act as an inspiration to future generations of mathematicians to tackle a job that will never be complete." - Gazette of the Australian Mathematical Society

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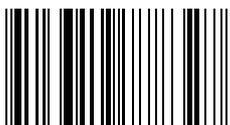
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ISBN 978-3-319-77832-7 / BIC: PBKF / SPRINGER NATURE: SCM1221X

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