

# 《17 lectures on ferma》

## 图书基本信息

书名：《17 lectures on fermat numbers论费马数的17篇文献》

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## 内容概要

The pioneering work of Pierre de Fermat has attracted the attention of mathematicians for over 350 years. This book provides an overview of the many properties of Fermat numbers and demonstrates their applications in areas such as number theory, probability theory, geometry, and signal processing. It is an ideal introduction to the basic mathematical ideas and algebraic methods connected with the Fermat numbers.

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## 书籍目录

Foreword Preface Glossary of Symbols 1. Introduction 2. Fundamentals of Number Theory 3. Basic Properties of Fermat Numbers 4. The Most Beautiful Theorems on Fermat Numbers 5. Primality of Fermat Numbers 6. Divisibility of Fermat Numbers 7. Factors of Fermat Numbers 8. Connection of Fermat Numbers with Pascal's Triangle 9. Miscellaneous Results 10. The Irrationality of the Sum of Some Reciprocals 11. Fermat Primes and a Diophantine Equation 12. Fermat's Little Theorem, Pseudoprimes, and Superpseudoprimes 13. Generalizations of Fermat Numbers 14. Open Problems 15. Fermat Number Transform and Other Applications 16. The Proof of Gauss's Theorem 17. Euclidean Construction of the Regular Heptadecagon

Appendix

A. Tables of Fermat Numbers and Their Prime Factors B. Mersenne Numbers C. Remembrance of Pierre de Fermat

References Web Site Sources Name Index Subject Index

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## 精彩短评

1、确实很经典，思路很好

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