

<<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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作者：Krizek, M.; Luca, F.; Somer, L.

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内容概要

The pioneering work of French mathematician Pierre de Fermat has attracted the attention of mathematicians for over 350 years. This book was written in honor of the 400th anniversary of his birth, providing readers with an overview of the many properties of Fermat numbers and demonstrating their applications in areas such as number theory, probability theory, geometry, and signal processing. This book introduces a general mathematical audience to basic mathematical ideas and algebraic methods connected with the Fermat numbers.

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

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