割圆域引论

Graduate Texts in Mathematics

Lawrence C. Washington

Introduction to Cyclotomic Fields
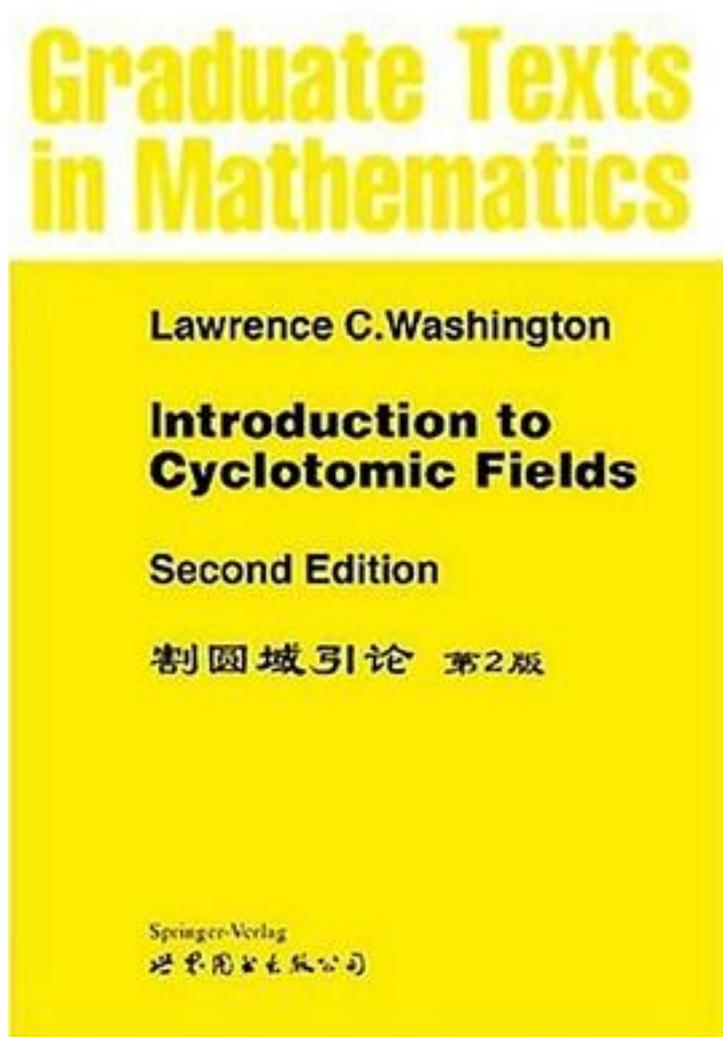
Second Edition

割圆域引论 第2版

Springer-Verlag

世界图书出版公司

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著者:Lawrence C. Washington

出版者:Springer Verlag

出版时间:2003-6

装帧:Paperback

isbn:9787506260022

Since the publication of the first edition, several remarkable developments have taken place. The work of Thaine, Kolyvagin, and Rubin has produced fairly elementary proofs of Ribet's converse of Herbrand's theorem and of the Main Conjecture. The original proofs of both of these results used delicate techniques from algebraic geometry and were inaccessible to many readers. Also, Sinnott discovered a beautiful proof of the vanishing of Iwasawa's u-invariant that is much simpler than the one given in Chapter 7. Finally, Fermat's Last Theorem was proved by Wiles, using work of Frey, Ribet, Serre, Mazur, Langlands-Tunnell, Taylor-Wiles, and others. Although the proof, which is based on modular forms and elliptic curves, is much different from the cyclotomic approaches described in this book, several of the ingredients were inspired by ideas from cyclotomic fields and Iwasawa theory.

本书为英文版。

作者介绍:

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