



Cyclotomic Fields (Graduate Texts in Mathematics)

By S. Lang

Download now

Read Online ➔

Cyclotomic Fields (Graduate Texts in Mathematics) By S. Lang

Kummer's work on cyclotomic fields paved the way for the development of algebraic number theory in general by Dedekind, Weber, Hensel, Hilbert, Takagi, Artin and others. However, the success of this general theory has tended to obscure special facts proved by Kummer about cyclotomic fields which lie deeper than the general theory. For a long period in the 20th century this aspect of Kummer's work seems to have been largely forgotten, except for a few papers, among which are those by Pollaczek [Po], Artin-Hasse [A-H] and Vandiver [Va]. In the mid 1950's, the theory of cyclotomic fields was taken up again by Iwasawa and Leopoldt. Iwasawa viewed cyclotomic fields as being analogues for number fields of the constant field extensions of algebraic geometry, and wrote a great sequence of papers investigating towers of cyclotomic fields, and more generally, Galois extensions of number fields whose Galois group is isomorphic to the additive group of p -adic integers. Leopoldt concentrated on a fixed cyclotomic field, and established various p -adic analogues of the classical complex analytic class number formulas. In particular, this led him to introduce, with Kubota, p -adic analogues of the complex L -functions attached to cyclotomic extensions of the rationals. Finally, in the late 1960's, Iwasawa [Iw 1 I] made the fundamental discovery that there was a close connection between his work on towers of cyclotomic fields and these p -adic L -functions of Leopoldt-Kubota.

 [Download Cyclotomic Fields \(Graduate Texts in Mathematics\) ...pdf](#)

 [Read Online Cyclotomic Fields \(Graduate Texts in Mathematics\) ...pdf](#)

Cyclotomic Fields (Graduate Texts in Mathematics)

By S. Lang

Cyclotomic Fields (Graduate Texts in Mathematics) By S. Lang

Kummer's work on cyclotomic fields paved the way for the development of algebraic number theory in general by Dedekind, Weber, Hensel, Hilbert, Takagi, Artin and others. However, the success of this general theory has tended to obscure special facts proved by Kummer about cyclotomic fields which lie deeper than the general theory. For a long period in the 20th century this aspect of Kummer's work seems to have been largely forgotten, except for a few papers, among which are those by Pollaczek [Po], Artin-Hasse [A-H] and Vandiver [Va]. In the mid 1950's, the theory of cyclotomic fields was taken up again by Iwasawa and Leopoldt. Iwasawa viewed cyclotomic fields as being analogues for number fields of the constant field extensions of algebraic geometry, and wrote a great sequence of papers investigating towers of cyclotomic fields, and more generally, Galois extensions of number fields whose Galois group is isomorphic to the additive group of p -adic integers. Leopoldt concentrated on a fixed cyclotomic field, and established various p -adic analogues of the classical complex analytic class number formulas. In particular, this led him to introduce, with Kubota, p -adic analogues of the complex L -functions attached to cyclotomic extensions of the rationals. Finally, in the late 1960's, Iwasawa [Iw 1 I] . made the fundamental discovery that there was a close connection between his work on towers of cyclotomic fields and these p -adic L -functions of Leopoldt-Kubota.

Cyclotomic Fields (Graduate Texts in Mathematics) By S. Lang Bibliography

- Sales Rank: #3969768 in Books
- Published on: 1978-08-08
- Original language: English
- Number of items: 1
- Dimensions: .0" h x .0" w x .0" l, .0 pounds
- Binding: Hardcover
- 253 pages



[Download Cyclotomic Fields \(Graduate Texts in Mathematics\) ...pdf](#)



[Read Online Cyclotomic Fields \(Graduate Texts in Mathematics\) ...pdf](#)

Editorial Review

Users Review

From reader reviews:

Stewart Ramirez:

Now a day those who Living in the era just where everything reachable by connect with the internet and the resources included can be true or not involve people to be aware of each facts they get. How many people to be smart in getting any information nowadays? Of course the answer then is reading a book. Studying a book can help folks out of this uncertainty Information mainly this Cyclotomic Fields (Graduate Texts in Mathematics) book because book offers you rich info and knowledge. Of course the info in this book hundred % guarantees there is no doubt in it as you know.

Joseph Lewis:

Reading a reserve tends to be new life style on this era globalization. With reading through you can get a lot of information that will give you benefit in your life. Using book everyone in this world may share their idea. Books can also inspire a lot of people. A great deal of author can inspire their reader with their story as well as their experience. Not only the story that share in the textbooks. But also they write about the data about something that you need example. How to get the good score toefl, or how to teach your kids, there are many kinds of book that you can get now. The authors on this planet always try to improve their expertise in writing, they also doing some analysis before they write for their book. One of them is this Cyclotomic Fields (Graduate Texts in Mathematics).

Megan Urick:

Spent a free time for you to be fun activity to accomplish! A lot of people spent their down time with their family, or their own friends. Usually they undertaking activity like watching television, going to beach, or picnic from the park. They actually doing ditto every week. Do you feel it? Will you something different to fill your current free time/ holiday? May be reading a book is usually option to fill your free of charge time/ holiday. The first thing that you'll ask may be what kinds of e-book that you should read. If you want to try out look for book, may be the reserve untitled Cyclotomic Fields (Graduate Texts in Mathematics) can be good book to read. May be it might be best activity to you.

Julie Berkey:

Many people spending their time frame by playing outside using friends, fun activity together with family or just watching TV the whole day. You can have new activity to enjoy your whole day by looking at a book. Ugh, ya think reading a book can actually hard because you have to accept the book everywhere? It alright you can have the e-book, getting everywhere you want in your Smartphone. Like Cyclotomic Fields

(Graduate Texts in Mathematics) which is having the e-book version. So , why not try out this book? Let's find.

Download and Read Online Cyclotomic Fields (Graduate Texts in Mathematics) By S. Lang #S7A0T8JMWD1

Read Cyclotomic Fields (Graduate Texts in Mathematics) By S. Lang for online ebook

Cyclotomic Fields (Graduate Texts in Mathematics) By S. Lang 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 Cyclotomic Fields (Graduate Texts in Mathematics) By S. Lang books to read online.

Online Cyclotomic Fields (Graduate Texts in Mathematics) By S. Lang ebook PDF download

Cyclotomic Fields (Graduate Texts in Mathematics) By S. Lang Doc

Cyclotomic Fields (Graduate Texts in Mathematics) By S. Lang Mobipocket

Cyclotomic Fields (Graduate Texts in Mathematics) By S. Lang EPub