



## 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](#)

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

---

### **Editorial Review**

### **Users Review**

#### **From reader reviews:**

##### **Jaime Leflore:**

In this 21st millennium, people become competitive in most way. By being competitive currently, people have do something to make these individuals survives, being in the middle of often the crowded place and notice by means of surrounding. One thing that sometimes many people have underestimated it for a while is reading. Yeah, by reading a publication your ability to survive boost then having chance to endure than other is high. For you who want to start reading the book, we give you this Cyclotomic Fields (Graduate Texts in Mathematics) book as nice and daily reading publication. Why, because this book is greater than just a book.

##### **Michael Watkins:**

Nowadays reading books be a little more than want or need but also get a life style. This reading routine give you lot of advantages. Associate programs you got of course the knowledge even the information inside the book that improve your knowledge and information. The data you get based on what kind of guide you read, if you want attract knowledge just go with education books but if you want experience happy read one together with theme for entertaining for example comic or novel. The Cyclotomic Fields (Graduate Texts in Mathematics) is kind of book which is giving the reader capricious experience.

##### **Lanell Sessions:**

The publication with title Cyclotomic Fields (Graduate Texts in Mathematics) includes a lot of information that you can understand it. You can get a lot of profit after read this book. This particular book exist new information the information that exist in this publication represented the condition of the world today. That is important to you to be aware of how the improvement of the world. This kind of book will bring you inside new era of the globalization. You can read the e-book in your smart phone, so you can read it anywhere you want.

##### **Ethelyn Allen:**

People live in this new day time of lifestyle always try and and must have the extra time or they will get lots of stress from both day to day life and work. So, whenever we ask do people have time, we will say absolutely indeed. People is human not really a huge robot. Then we consult again, what kind of activity are you experiencing when the spare time coming to you of course your answer may unlimited right. Then do you try this one, reading books. It can be your alternative with spending your spare time, often the book you have read will be Cyclotomic Fields (Graduate Texts in Mathematics).

**Download and Read Online Cyclotomic Fields (Graduate Texts in Mathematics) By S. Lang #KMWLJ30TFDB**

# **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**