

Mathematics : Field Theory and Polynomials

Childress, Nancy

Class Field Theory

- Traditional approach, but cleaner and more streamlined than most others
- Accessible introduction to class field theory
- Lots of challenging exercises

Class field theory, the study of abelian extensions of algebraic number fields, is one of the largest branches of algebraic number theory. It brings together the quadratic and higher reciprocity laws of Gauss, Legendre, and others, and vastly generalizes them. Some of its consequences (e.g., the Chebotarev density theorem) apply even to nonabelian extensions. This book is an accessible introduction to class field theory. It takes a traditional approach in that it attempts to present the material using the original techniques of proof (global to local), but in a fashion which is cleaner and more streamlined than most other books on this topic. It could be used for a graduate course on algebraic number theory, as well as for students who are interested in self-study. The book has been class-tested, and the author has included exercises throughout the text.

Springer

1st
edition1st Edition. 2nd Printing.
2008, X, 226 p.**Printed book**

Softcover

Printed book

Softcover

ISBN 978-0-387-72489-8

\$ 79,99

Available

Discount group

Professional Books (2)

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Graduate/advanced undergraduate textbook

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Universitext

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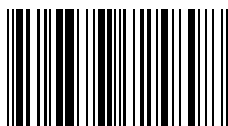
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ISBN 978-0-387-72489-8 / BIC: PBF / SPRINGER NATURE: SCM11051

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