Class Field Theory: Proofs and Applications

By Daniel Fretwell

GRIN Verlag. Paperback. Book Condition: New. Paperback. 56 pages. Dimensions: 11.7in. x 8.3in. x 0.1in.Research Paper from the year 2011 in the subject Mathematics - Number Theory, grade: Postgraduate, University of Sheffield, language: English, comment: Part two of the exploration of global class field theory. This contains most of the proofs and applications. , abstract: This document is a continuation of my Semester 1 project on class field theory. In the previous work, we made a rounded exposition of the fundamentals of class field theory but in order to preserve the document length the main proofs had to be skipped. We concentrate on filling in the gaps in this second installment. Due to the need to complete the arguments left open last semester and the need for applications this part of the project is a little longer than it should have been. It was not mentioned in the previous project but the class field theory we are studying here is global class field theory. There is such a thing as local class field theory in which we study the Abelian extensions of local fields (essentially fields that arise as completions of a number field with respect to places). Actually we...

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