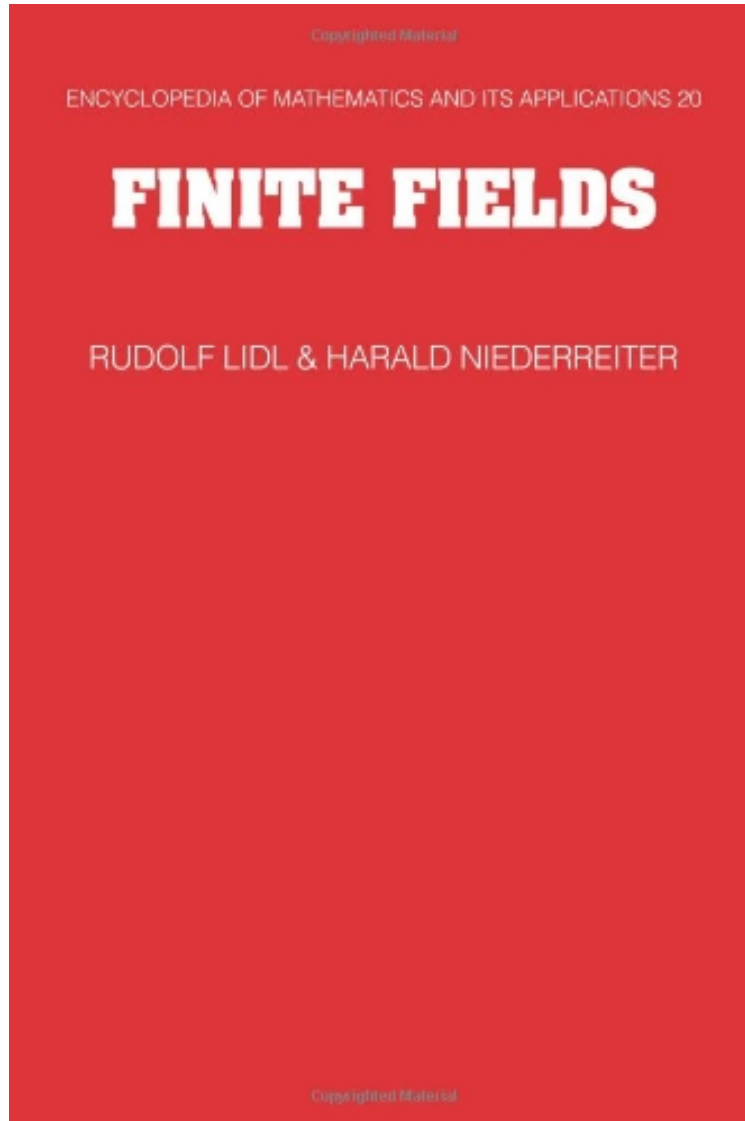


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## Finite Fields (Encyclopedia of Mathematics and its Applications)

*Rudolf Lidl, Harald Niederreiter*  
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**Rudolf Lidl, Harald Niederreiter : Finite Fields (Encyclopedia of Mathematics and its Applications)** before purchasing it in order to gage whether or not it would be worth my time, and all praised Finite Fields (Encyclopedia of Mathematics and its Applications):

0 of 0 people found the following review helpful. All Hail the Big Red Book. By Alexander Gruber An excellent reference for cryptographers, coding theorists, and others whose research relies on the theory of finite fields. Each chapter is written by a leading expert in specializing in the topic being treated. There is a 150+ page bibliography that

provides a wealth of articles and other books supporting and expanding on the arguments presented here. The Big Red Book is more than just a reference, though. It makes an excellent introduction to finite fields accessible to anyone with a first year abstract algebra class under their belt (that is, groups, rings, fields, and some Galois theory). The writing style is very down to earth and practical, making sparse use of higher level artillery like category theory or topology. The results are often treated as more combinatorial than algebraic, favoring constructive proofs and counting arguments over algebraic geometry. An excellent addition to the bookshelf of any mathematician, grad student, or undergrad with interests in algebra. 2 of 3 people found the following review helpful. An excellent and thorough reference.

By Andrew Storm This book is an excellent reference on finite fields. Chapter 1 covers the necessary background material at the right level for someone with a good knowledge of mathematics, but little algebra. Chapter 2 covers the basics of finite fields and chapter 3 goes into more detail on polynomials. The later chapters treat special topics and some applications. The proofs are clear, not over detailed and not overly terse either. If you just want to know the basics then there may be more in this book than you will ever need, but if you want a thorough reference it is recommended. 2 of 3 people found the following review helpful. Book for professional mathematician.

By Dmitry A. Cousin This is the best book on Galois (Finite) Fields, written by Austrian and Australian professors can be recommended as the most complete reference in the field. It is amazing how helpful it has been to me since time I wrote my MS diploma. Though an instance I was using was borrowed from library, I'd recommend everybody, who is related to discrete math to have one.

The theory of finite fields is a branch of algebra with diverse applications in such areas as combinatorics, coding theory and the mathematical study of switching circuits. This updated second edition is devoted entirely to the theory of finite fields, and it provides comprehensive coverage of the literature. Bibliographical notes at the end of each chapter give a historical survey of the development of the subject. Worked examples and lists of exercises throughout the book make it useful as a text for advanced level courses for students of algebra.

"The authors have done a masterful job in first digesting an enormous amount of material and then organizing it in an efficient way to make for a clear and readable treatise ... This monograph has already become the standard reference on finite fields; indeed, it is referenced in nearly every paper related to finite fields." Bulletin of the American Mathematical Society "...suitable for self-study or even as a text in a course for, say, an honors class of undergraduate seniors or a graduate-level mathematics class. It is also an excellent reference, especially because of the extensive notes... This well-written treatise deserves attention from everyone interested in any of the several areas in which finite fields arise today." SIAM REVIEW

From the Back Cover The theory of finite fields is a branch of algebra that has come to the fore because of its diverse applications in such areas as combinatorics, coding theory and the mathematical study of switching circuits. This book is devoted entirely to the theory of finite fields, and it provides comprehensive coverage of the literature. Bibliographical notes at the end of each chapter give an historical survey of the development of the subject. Worked out examples and lists of exercises found throughout the book make it useful as a text for advanced level courses.