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In abstract algebra, a division ring, also called a skew field, is a ring in which division is possible. Specifically, it is a nonzero ring in which every nonzero element a has a multiplicative inverse, i.e., an element x with a·x = x·a = 1. Stated differently, a ring is a division ring if and only if the group of units equals the set of all nonzero elements. A division ring is a type of noncommutative ring under the looser definition where noncommutative ring refers to rings which are not ...

Division ring - Wikipedia
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Non-commutative fields (also called skew fields or division rings) have not been studied as thoroughly as their commutative counterparts, and most accounts have hitherto been confined to division algebras – that is skew fields finite dimensional over their centre.

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Algebraists have studied noncommutative fields (also called skew fields or division rings) less thoroughly than their commutative counterparts. Most existing accounts have been confined to division algebras, i.e. skew fields that are finite dimensional over their center. This work offers the first comprehensive account of skew fields.

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This work offers a comprehensive account of skew fields and related mathematics.

The book is written in three parts. Part I consists of preparatory work on algebras, needed in Parts II and III. Part II consists of a modern description of the theory of Brauer groups over fields (from as elementary a point of view as possible). Part III covers some new developments in the theory which, until now, have not been available except in journals.

A study of representations of rings over skew fields.

Here is the second volume of a revised edition of P.M. Cohn's classic three-volume text Algebra, widely regarded as one of the most outstanding introductory algebra textbooks. Volume Two focuses on applications. The text is supported by worked examples, with full proofs, there are numerous exercises with occasional hints, and some historical remarks.

"These notes describe methods of constructing skew fields, in particular the coproduct coconstruction discovered by the author, and trace out some of the consequences using the powerful coproduct theorems of G.M. Bergman, which are proved here."- publisher

This book is concerned with subgroups of groups of the form GL(n,D) for some division ring D. In it the authors bring together many of the advances in the theory of skew linear groups. Some aspects of skew linear groups are similar to those for linear groups, however there are often significant differences either in the method of proof or the results themselves. Topics covered in this volume include irreducibility, unipotence, locally finite-dimensional division algebras, and division algebras associated with polycyclic groups. Both authors are experts in this area of current interest in group theory, and algebraists and research students will find this an accessible account of the subject.

Contains 25 surveys in algebra and model theory, all written by leading experts in the field. The surveys are based around talks given at conferences held in Essen, 1994, and Dresden, 1995. Each contribution is written in such a way as to highlight the ideas that were discussed at the conferences, and also to stimulate open research problems in a form accessible to the whole mathematical community. The topics include field and ring theory as well as groups, ordered algebraic structure and their relationship to model theory. Several papers deal with infinite permutation groups, abelian groups, modules and their relatives and representations. Model theoretic aspects include quantifier elimination in skew fields, Hilbert's 17th problem, (aleph-0)-categorical structures and Boolean algebras. Moreover symmetry questions and automorphism groups of orders are covered. This work contains 25 surveys in algebra and model theory, each is written in such a way as to highlight the ideas that were discussed at Conferences, and also to stimulate open research problems in a form accessible to the whole mathematical community.

Noncommutative rational functions form a free skew field, a universal object in the category of skew fields. They emerge in various branches of pure and applied mathematics, such as noncom-mutative algebra, automata theory, control theory, free analysis, free real algebraic geometry and free probability. A noncommutative rational function is given by a formal rational expression involving freely noncommuting variables and arithmetic operations, which can be naturally evaluated at tuples of matrices of all sizes. This dissertation studies such finite-dimensional evaluations, with the goal of determining what information about the structure of the free skew field can be recovered from them. Firstly a matrix coefficient realization theory is developed, which for an arbitrary noncom-mutative rational function yields an efficiently computable normal form. Such a realization of a noncommutative rational function measures its complexity and describes its natural domain as the complement of a free singularity locus of a linear matrix pencil. The inclusion problem for free loci, and thus for domains of noncommutative rational functions, is next solved in terms of epimorphisms between the coefficient algebras of the corresponding linear matrix pencils. This theorem, called a Singularitatstellensatz for linear matrix pencils, is closely related to the invariant theory of the general linear group. Via realization theory this result yields an algebraic characterization of noncommutative rational functions with a given domain. More-over, a description of noncommutative rational functions whose domains contain all tuples of hermitian matrices is derived. In particular, it is proven that an everywhere defined noncom-mutative rational function is a noncommutative polynomial. The understanding of the behavior of noncommutative rational functions under hermitian evaluations is further advanced by the resolution of an noncommutative analog of Hilbert's 17th problem: a noncommutative rational function that is positive semidefinite at every tuple of hermitian matrices is a sum of hermitian squares of noncommutative rational functions. Finally, the construction of the free skew field via matrix evaluations is extended to partially commuting arguments. The obtained multipartite rational functions play a remarkable role in the theory of universal skew fields of fractions and in the difference-differential calculus in free analysis.

Offers a comprehensive presentation of spectral spaces focussing on their topology and close connections with algebra, ordered structures, and logic.

Articles in this volume are based on talks given at the International Conference on Noncommutative Rings, Group Rings, Diagram Algebras and Their Applications. The conference provided researchers in mathematics with the opportunity to discuss new developments in these rapidly growing fields. This book contains several excellent articles, both expository and original, with new and significant results. It is suitable for graduate students and researchers interested in Ring Theory, Diagram Algebras and related topics.