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intersection of algebra and geometry. It furnishes in-depth discussions on Hopf algebras and quantum groups, Brauer groups, localization theory, K-theory, linear algebra over rings, category theory, noncommutative algebraic geometry, and more. Containing some 900 display equations and over 400 bibliographic citations and illustrations, the book is a valuable resource for algebraists, number theorists, ring theorists, and graduate-level students in these disciplines.

S.K. JAIN, S. Tariq RIZVI, (Editors). — **Advances in ring theory.** — Trends in mathematics. — Un vol. relié, 16×24, de vi, 333 p. — ISBN 0-8176-3969-1 (Boston), 3-7643-3969-1 (Basel). — Prix: SFr. 148.00. — Birkhäuser, Boston, 1997.

This research volume provides a collection of invited research papers, many of which were presented at 23<sup>rd</sup> Ohio State Denison Math Conference held at Denison University, Granville, in May 1996. The articles give the latest developments and trends in classical ring theory. Containing contributions of over 35 well-known mathematicians, the volume examines wide-ranging developments in ring theory and provides a variety of methodologies which will be useful to any researchers in the field.

Gerhard SAAD and Momme Johs THOMSEN, (Editors). — **Nearrings, nearfields and K-loops.** — Proceedings of the Conference on Nearrings and Nearfields, Hamburg, Germany, July 30-August 6, 1995. — Mathematics and its applications, vol. 426. — Un vol. relié, 16,5×24,5, de xiii, 444 p. — ISBN 0-7923-4799-4. — Prix: Dfl. 340.00. — Kluwer Academic Publishers, Dordrecht, 1997.

The volume contains the written version of five invited lectures concerning the development from nearfields to K-loops, non-zerosymmetric nearrings, nearrings of homogeneous functions, the structure of  $\Omega$ -groups, and ordered nearfields. They are followed by 30 contributed papers reflecting the diversity of the subject of nearrings and related structures with respect to group theory, combinatorics, geometry, topology as well as the purely algebraic structure theory of these algebraic structures.

## *Catégories, algèbre homologique, cohomologie des groupes*

F. William LAWVERE, Stephen H. SCHANUEL. — **Conceptual mathematics: a first introduction to categories.** — Un vol. broché, 17,5×25, de xii, 358 p. — ISBN 0-521-47817-0. — Prix: £24.95 (relié: £65.00). — Cambridge University Press, Cambridge, 1997.

This book is the first book to serve both as a skeleton key to mathematics for the general reader or beginning student and as an introduction to categories for computer scientists, logicians, physicists, linguists, etc. While the ideas and techniques of basic category theory are useful throughout modern mathematics, this book does not presuppose knowledge of specific fields but rather develops elementary categories such as directed graphs and discrete dynamical systems from the beginning. The fundamental ideas are then illuminated in an engaging way by examples in these categories.

## *Théorie des groupes et généralisation*

Jürgen ELSTRODT, Fritz GRUNEWALD, Jens MENNICKE. — **Groups acting on hyperbolic space: harmonic analysis and number theory.** — Springer monographs in mathematics. — Un vol. relié, 16×24, de xv, 524 p. — ISBN 3-540-63745-6. — Prix: DM 149.00. — Springer, Berlin, 1998.

This book deals with a broad range of topics from the theory of automorphic functions on three-dimensional hyperbolic space and its arithmetic, group-theoretic, and geometric